

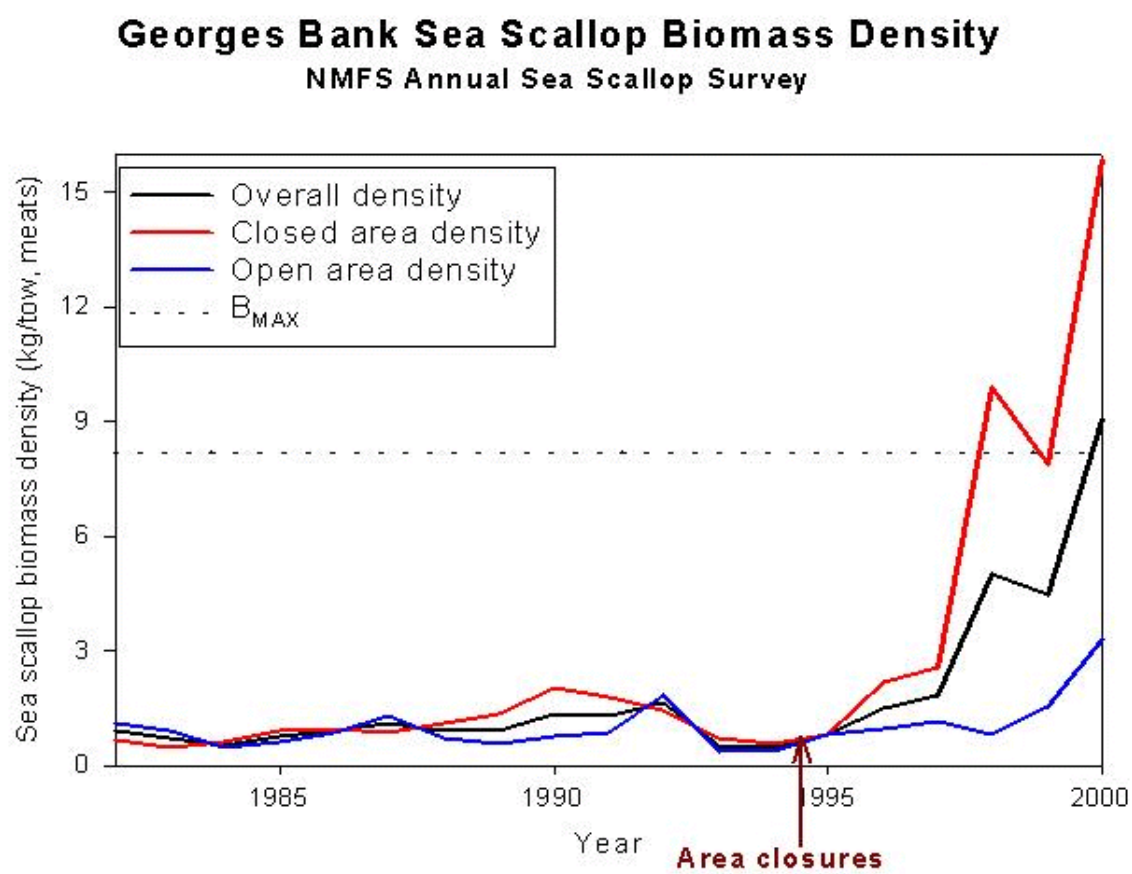
Figure B.1. *Georges Bank, Mid-Atlantic Bight Scallop Biomass, Landings, and Survey Indices*

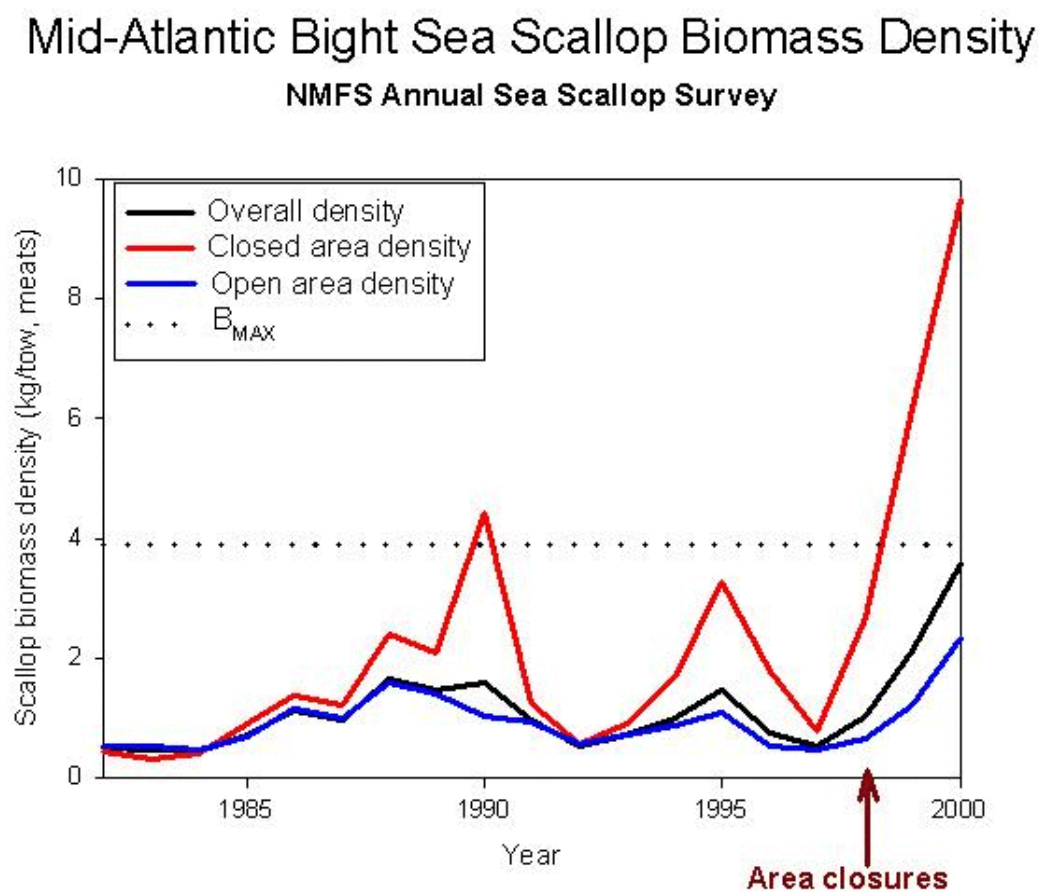
Figure B.2. *Georges Bank, Mid-Atlantic Bight Scallop Biomass, Landings, and Survey Indices*

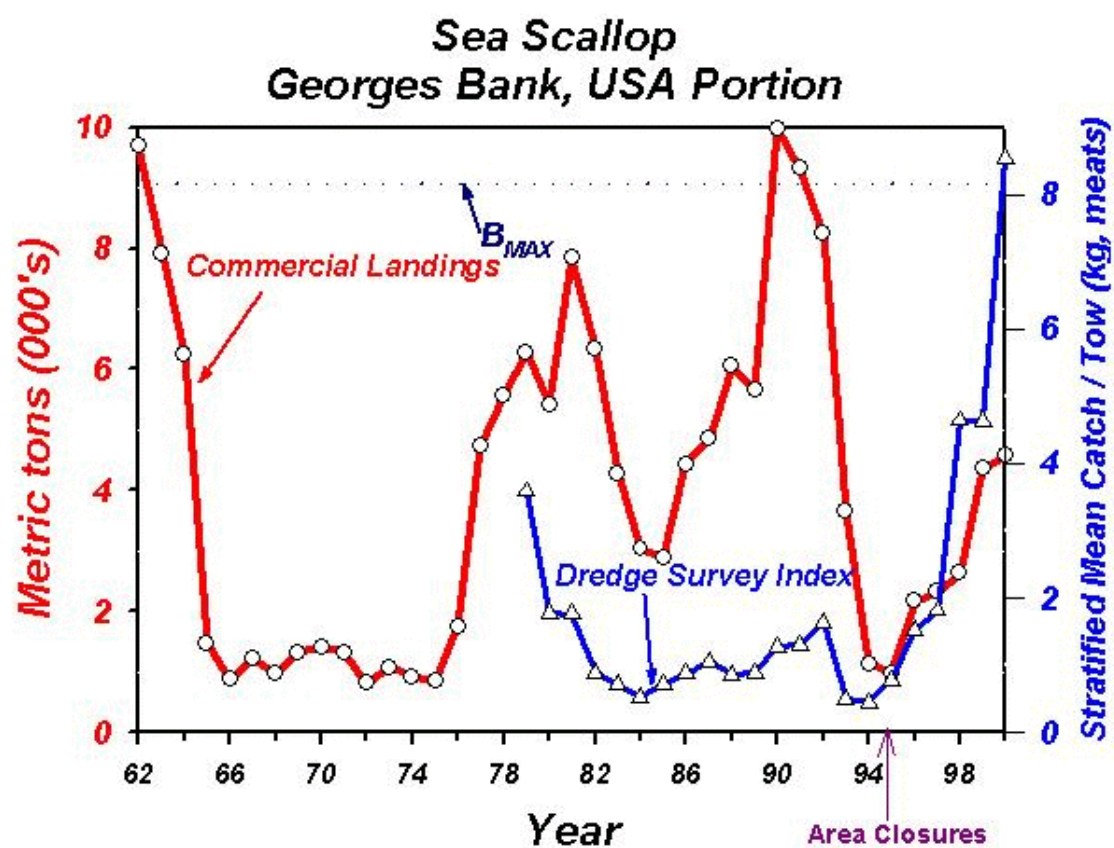
Figure B.3. *Georges Bank, Mid-Atlantic Bight Scallop Biomass, Landings, and Survey Indices*

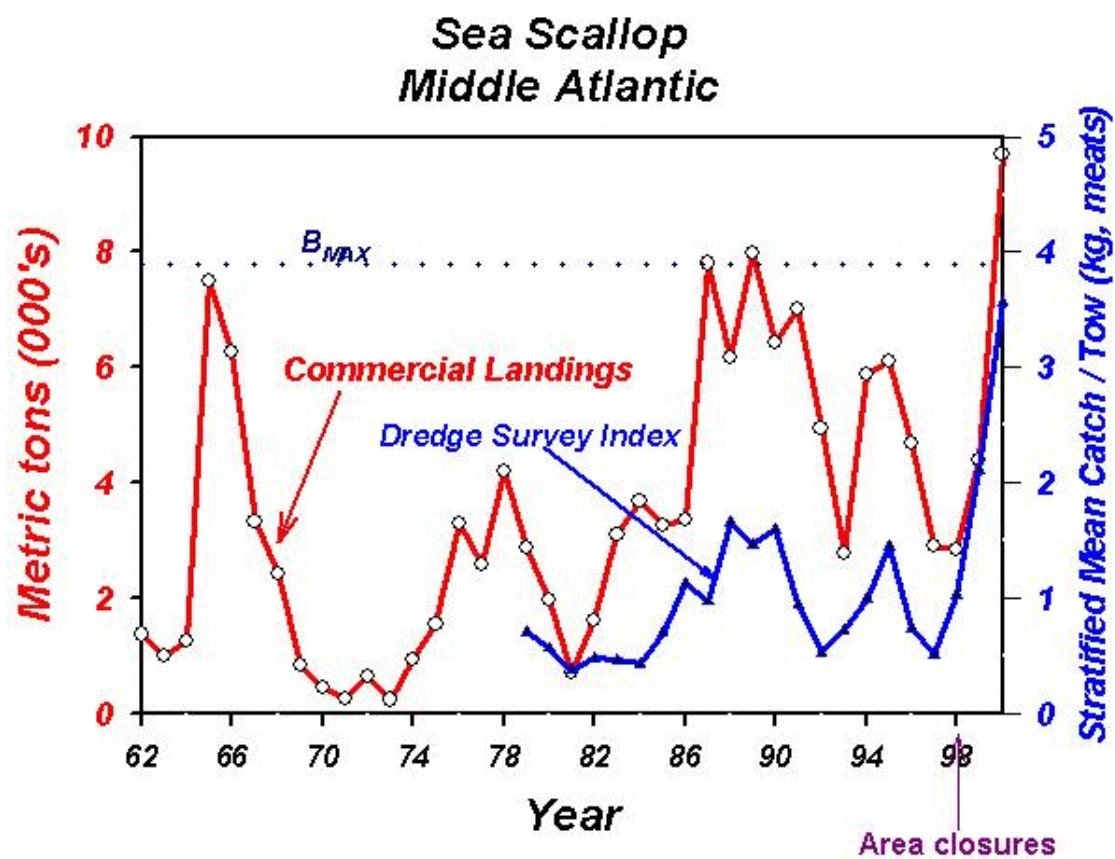
Figure B.4. *Georges Bank, Mid-Atlantic Bight Scallop Biomass, Landings, and Survey Indices*

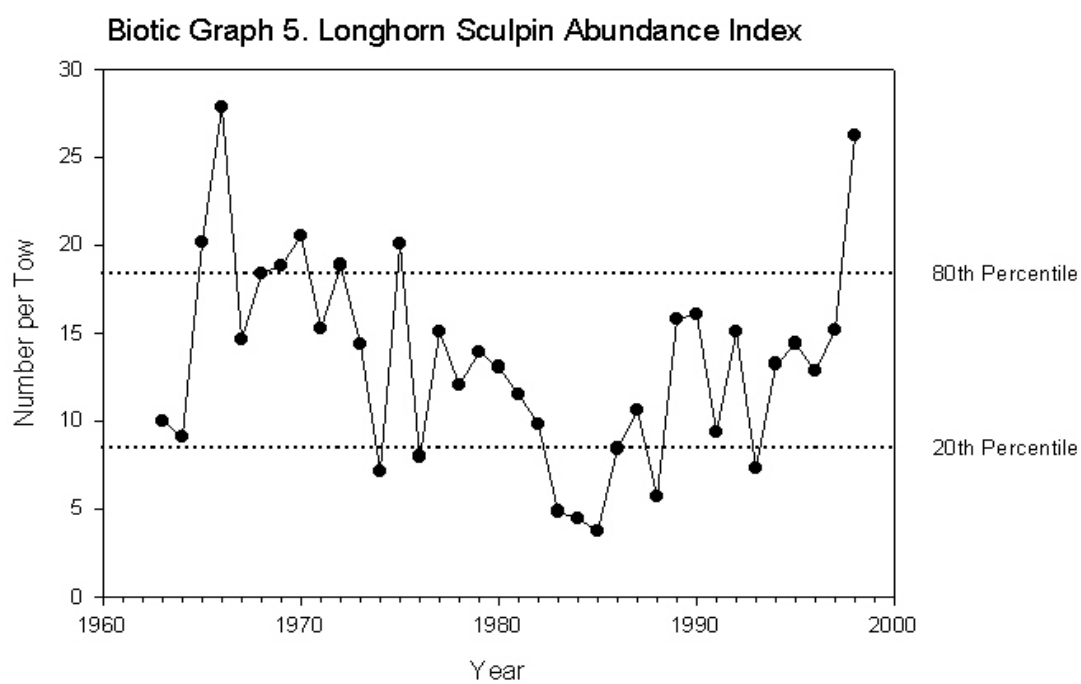
Figure B.5. *Sculpin abundance from fall bottom trawl survey*

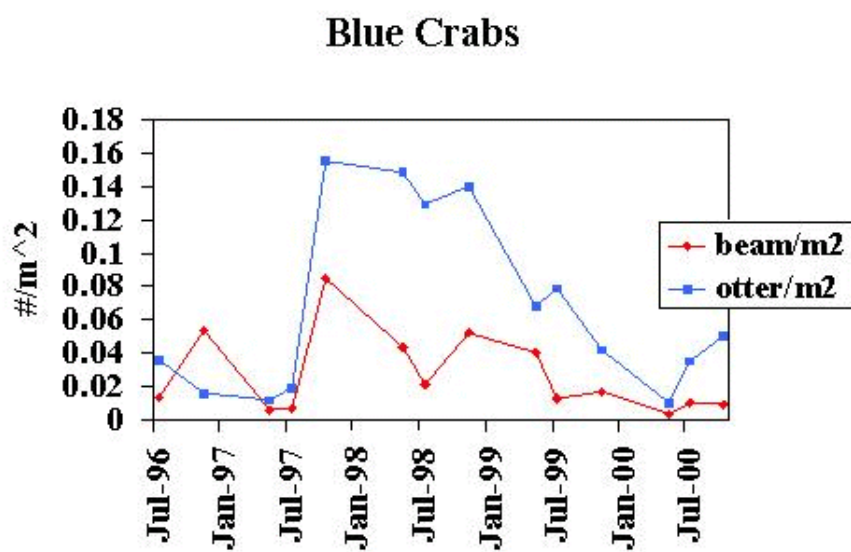
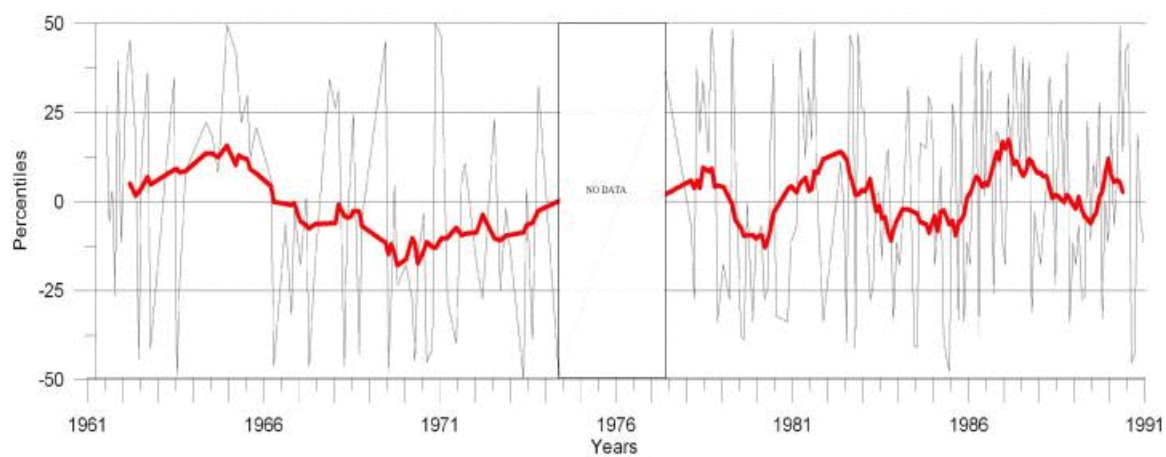
Figure B.6. *Blue crab abundance*

Figure B.7a. *Central Gulf of Maine Calanus finmarchicus, c.1-4, c.5-6 anomalies*



Percentile departures of *Calanus* spp., c.1-4 from 1961 through 1990 medians in the central Gulf of Maine. Fifteen month running average curve superimposed. From: MARMAP Ships of Opportunity Program.

Figure B.7b. *Central Gulf of Maine Calanus finmarchicus*, c.1-4, c.5-6 anomalies

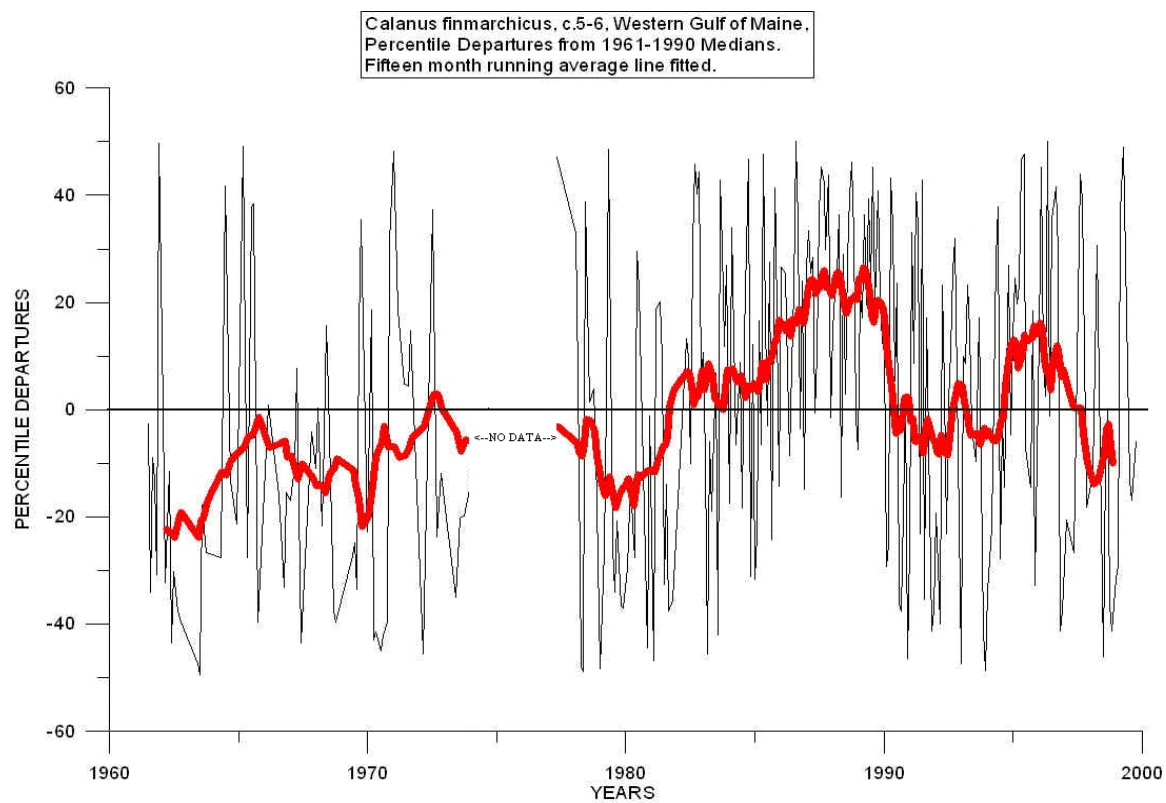
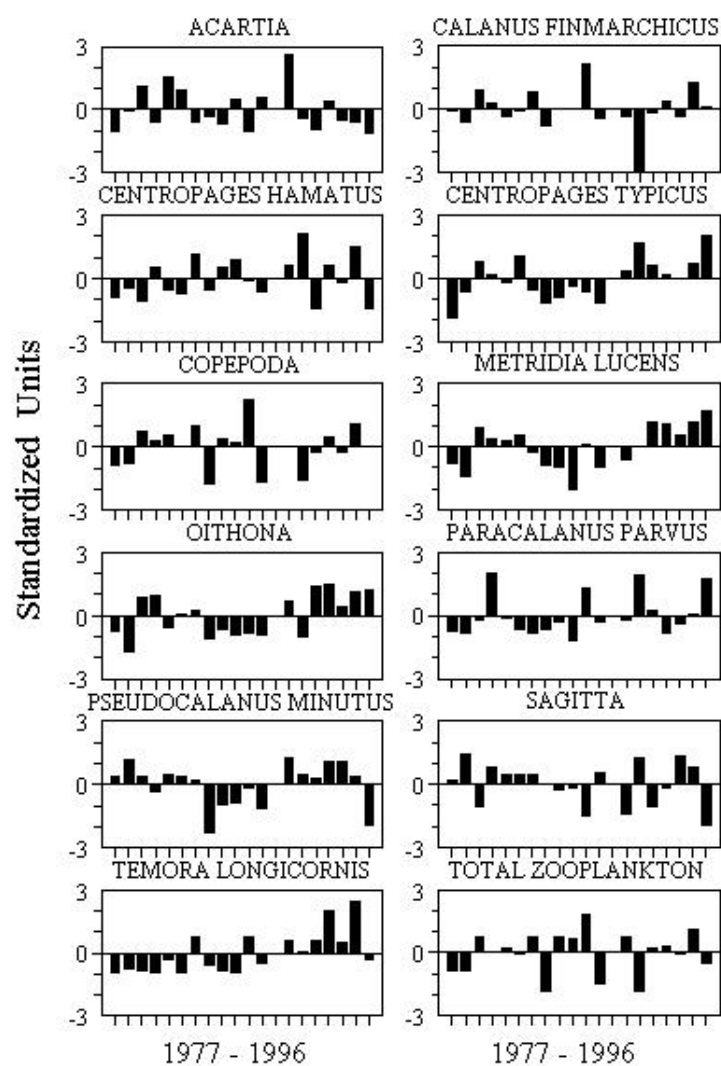
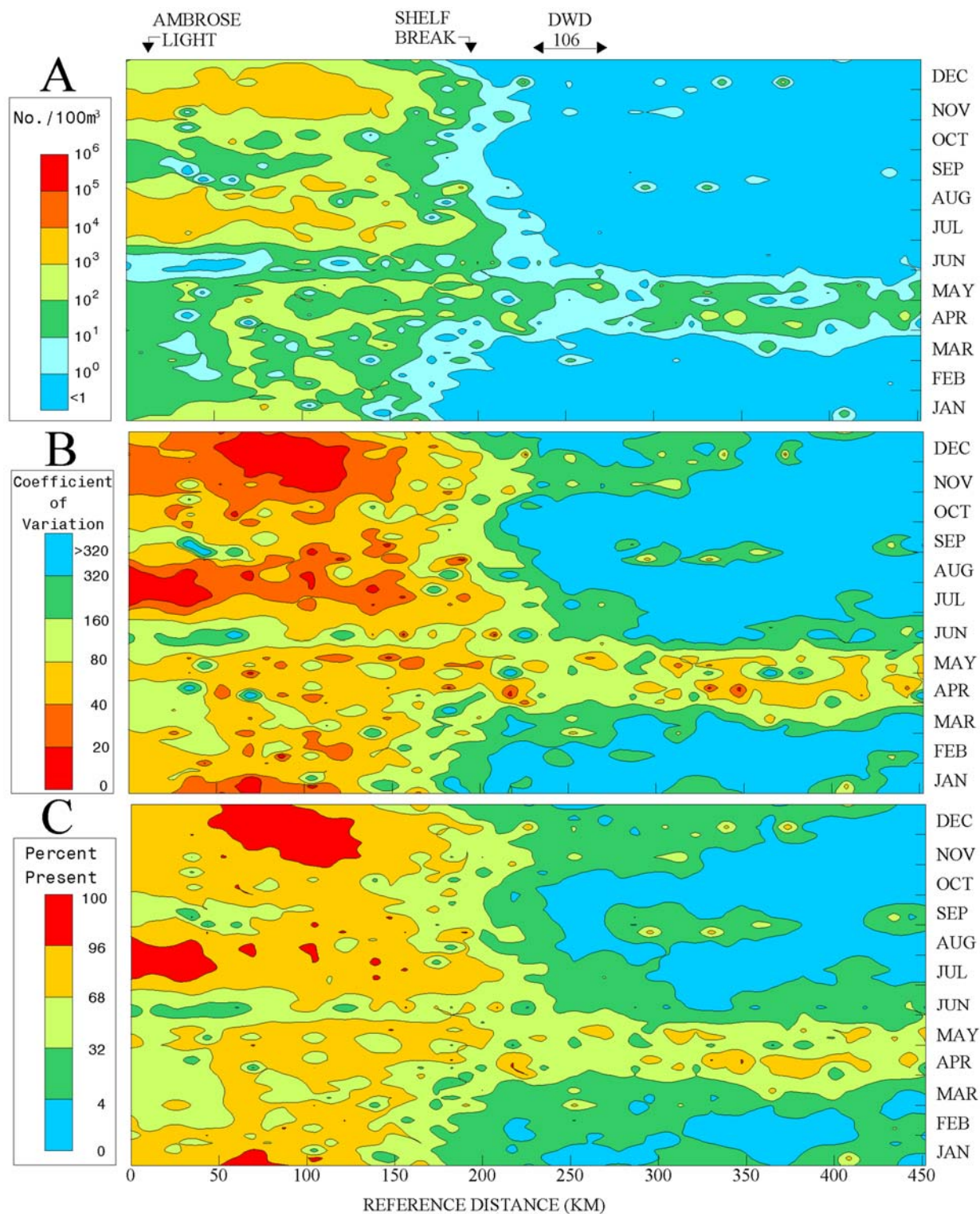




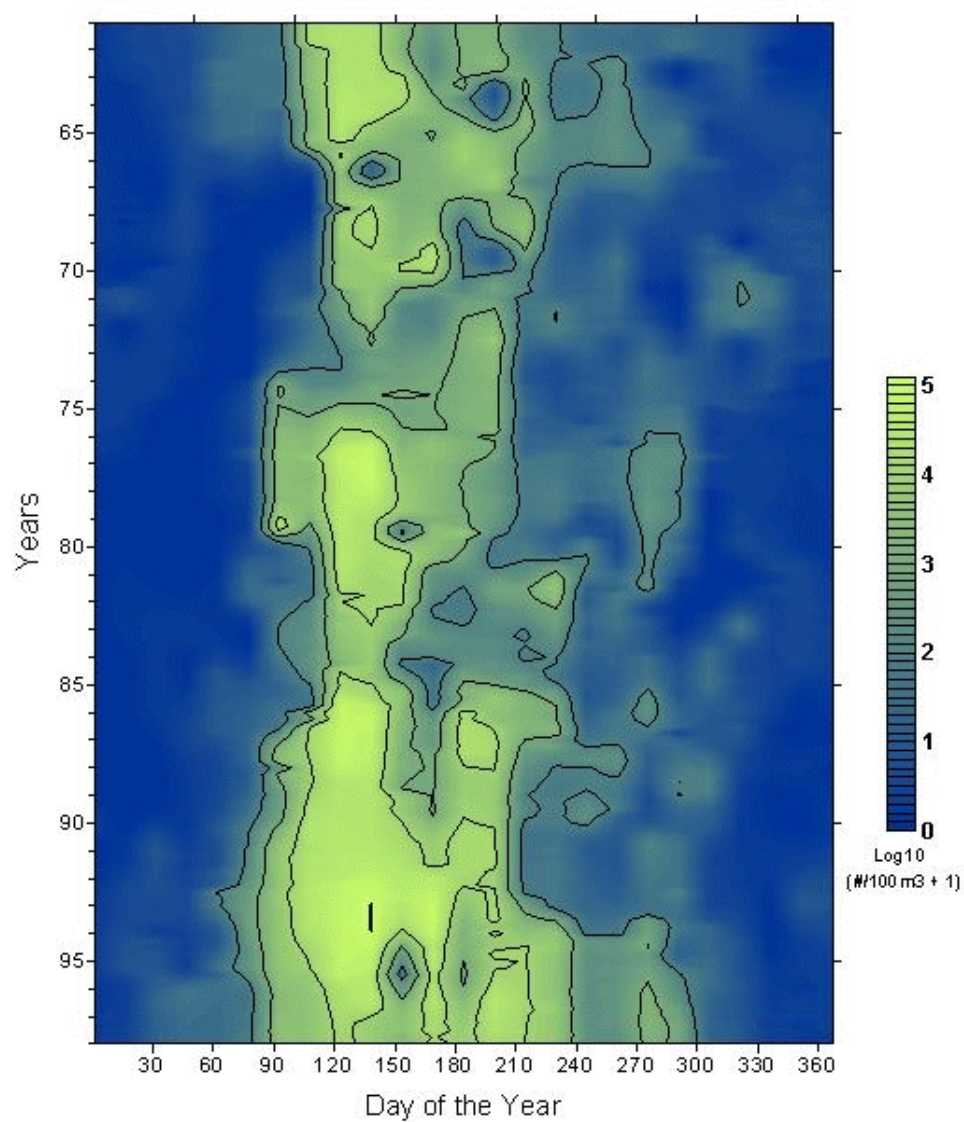
Figure B.8. *Anomalies of major zooplankton during spring*

Standardized departures of mean annual plankton abundances during 'spring' (15 Feb - 15 May) on Georges Bank. From: NOAA, NEFSC, MARMAP Surveys.

Figure B.9. Time and space conditions of *Centropagus typicus* across the continental shelf

Time and space conditions of *Centropages typicus*, c. 4-6, across the continental shelf and slope southeast of New York City during the 1976 through 1990 base period. A. Base period mean abundance. B. Coefficient of variation about the base period mean. C. Percent of samples during the base period with taxon present. From: Jossi et al., In Review.

Figure B.10. *Calanus abundance by day of year over time*



*Calanus finmarchicus*, c1-4, between Massachusetts & Cape Sable (10m).  
From: MARMAP Ships of Opportunity Program.

Figure B.11. *The overall zooplankton biomass and abundance trends of two dominant copepods: Calanus finmarchicus and Centropages typicus*

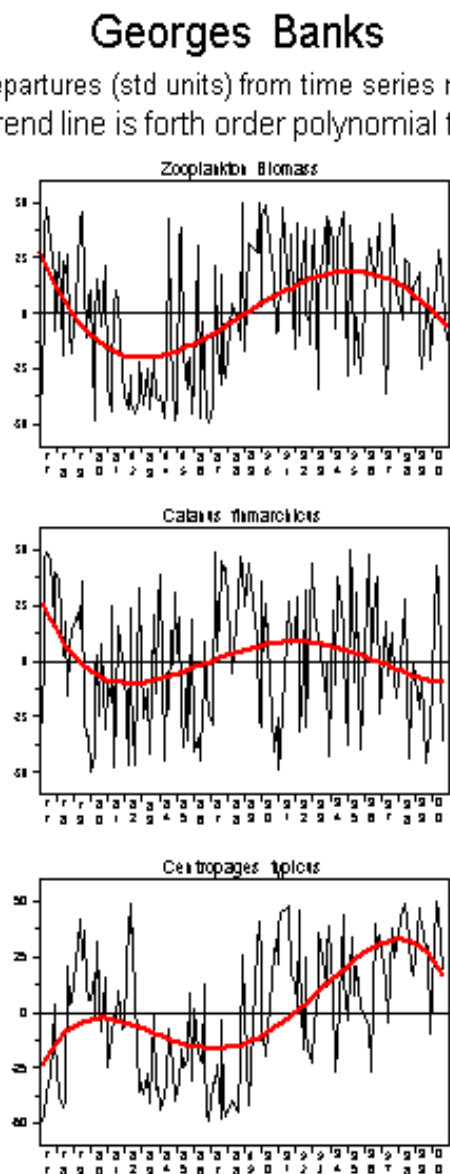


Figure B.12. *The overall zooplankton biomass and abundance trends of two dominant copepods: Calanus finmarchicus and Centropages typicus*

**Gulf of Maine**

% Departures (std units) from time series monthly mean.  
Trend line is forth order polynomial fit to data.

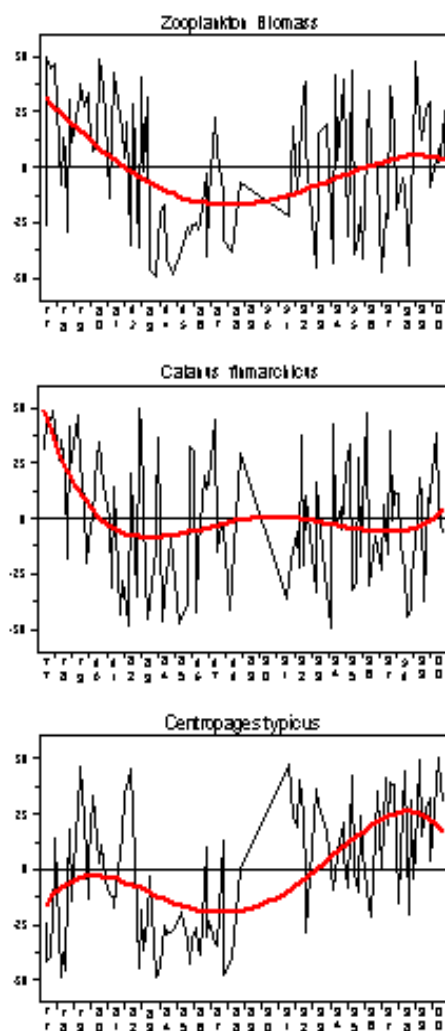




Figure B.13. *Total Zooplankton Biomass*

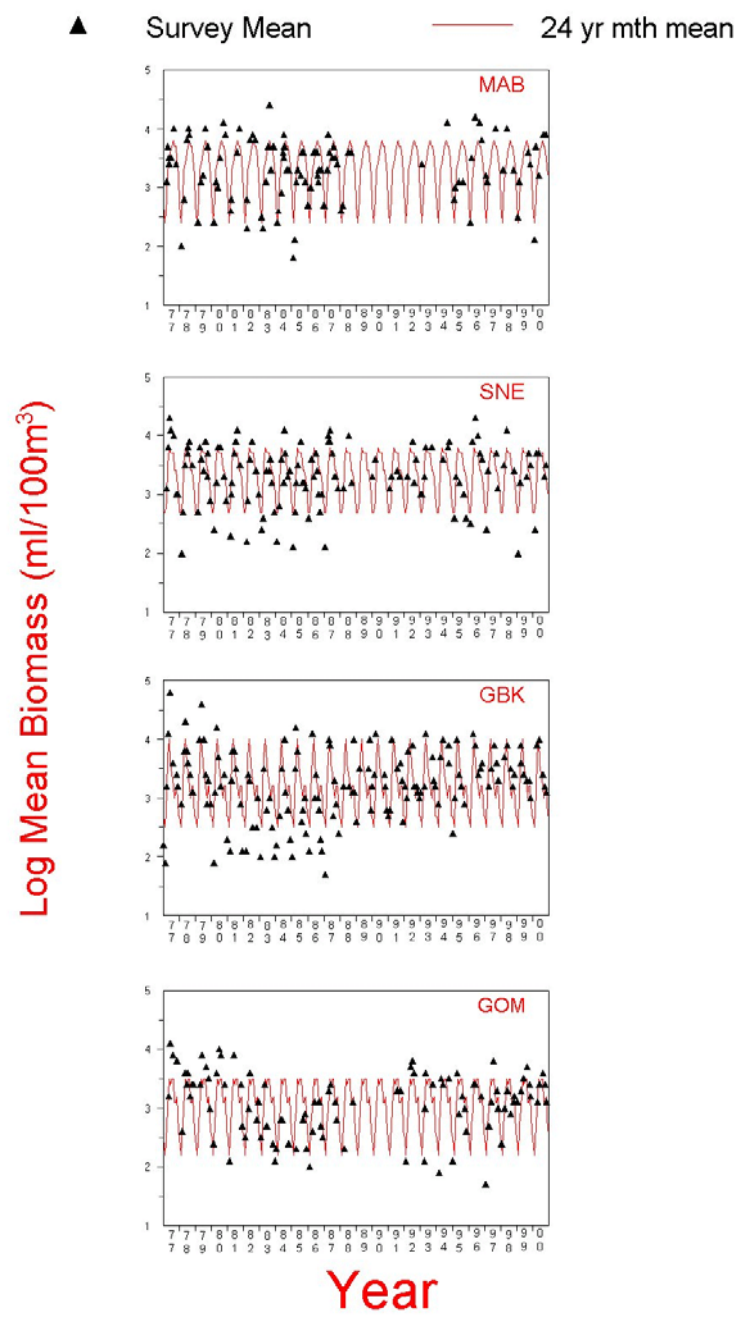


Figure B.14a. *Relative abundance of northeast species groups (groundfish, pelagics, elasmobranchs, others) from combined fall and spring bottom trawl surveys*

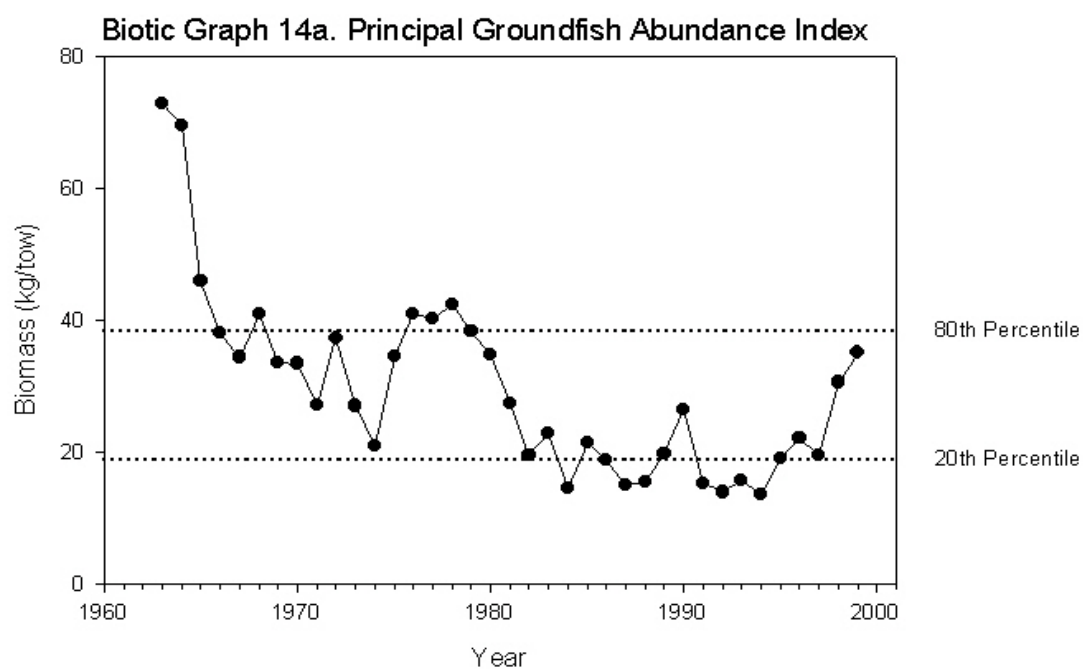


Figure B.14b. *Relative abundance of northeast species groups (groundfish, pelagics, elasmobranchs, others) from combined fall and spring bottom trawl surveys*

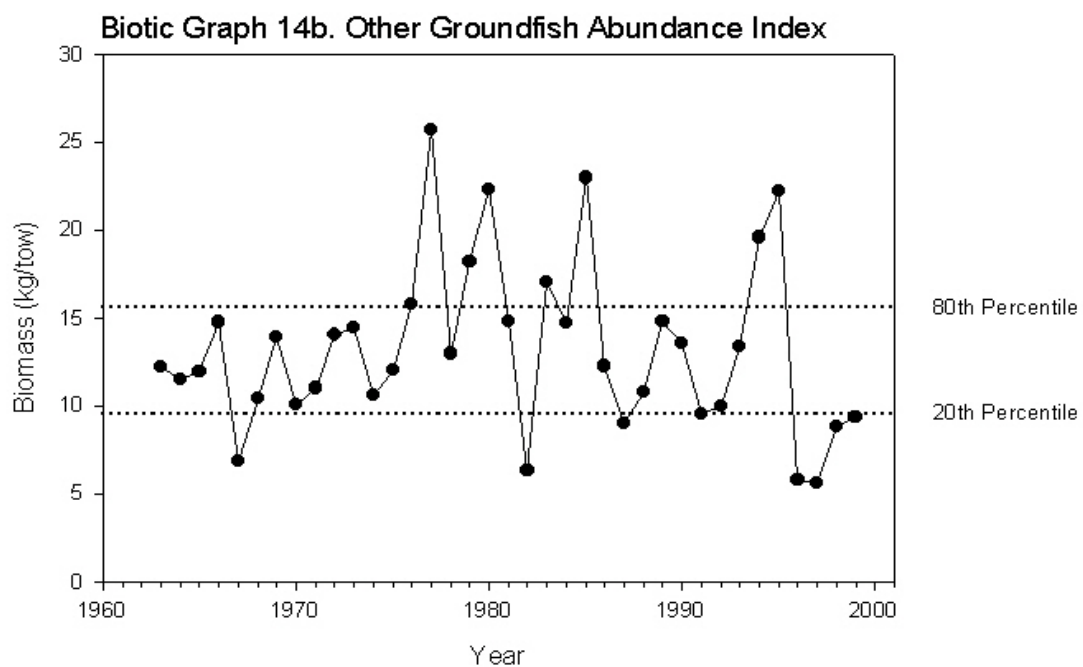




Figure B14c. *Relative abundance of northeast species groups (groundfish, pelagics, elasmobranchs, others) from combined fall and spring bottom trawl surveys*

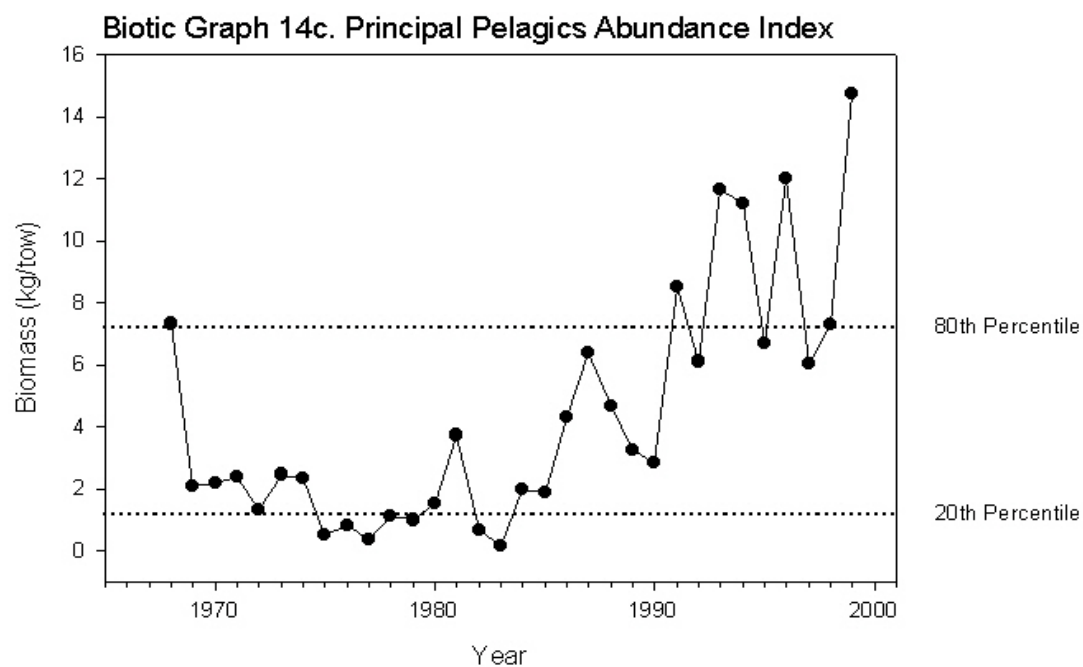


Figure B.14d. *Relative abundance of northeast species groups (groundfish, pelagics, elasmobranchs, others) from combined fall and spring bottom trawl surveys*

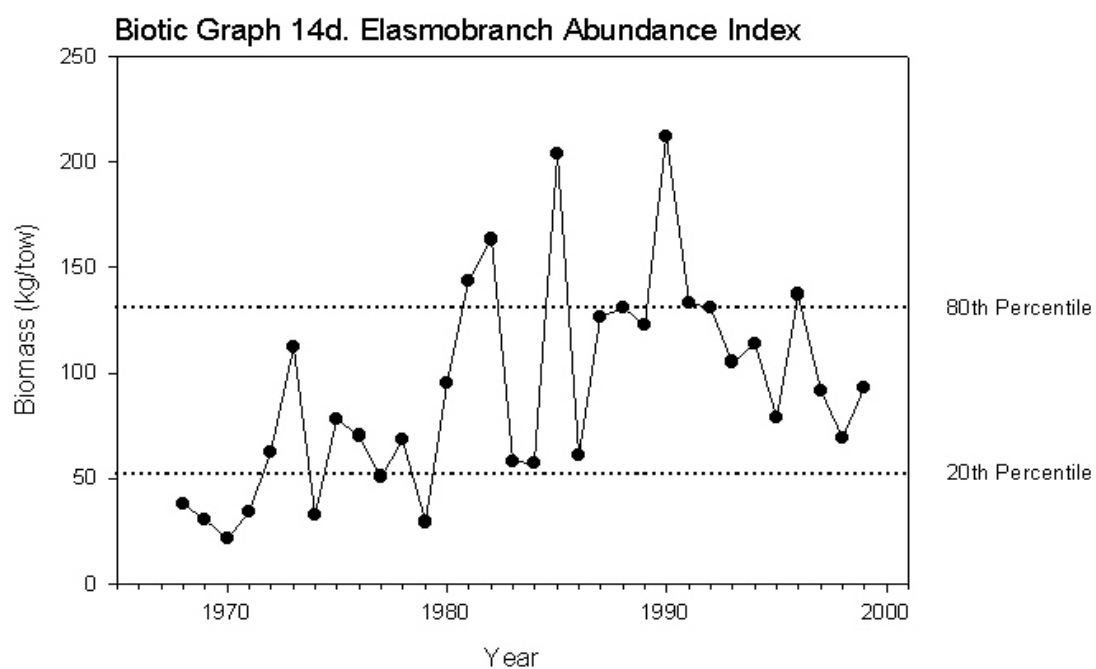


Figure B.15. *Principal groundfish biomass for Georges Bank from autumn bottom trawl survey*

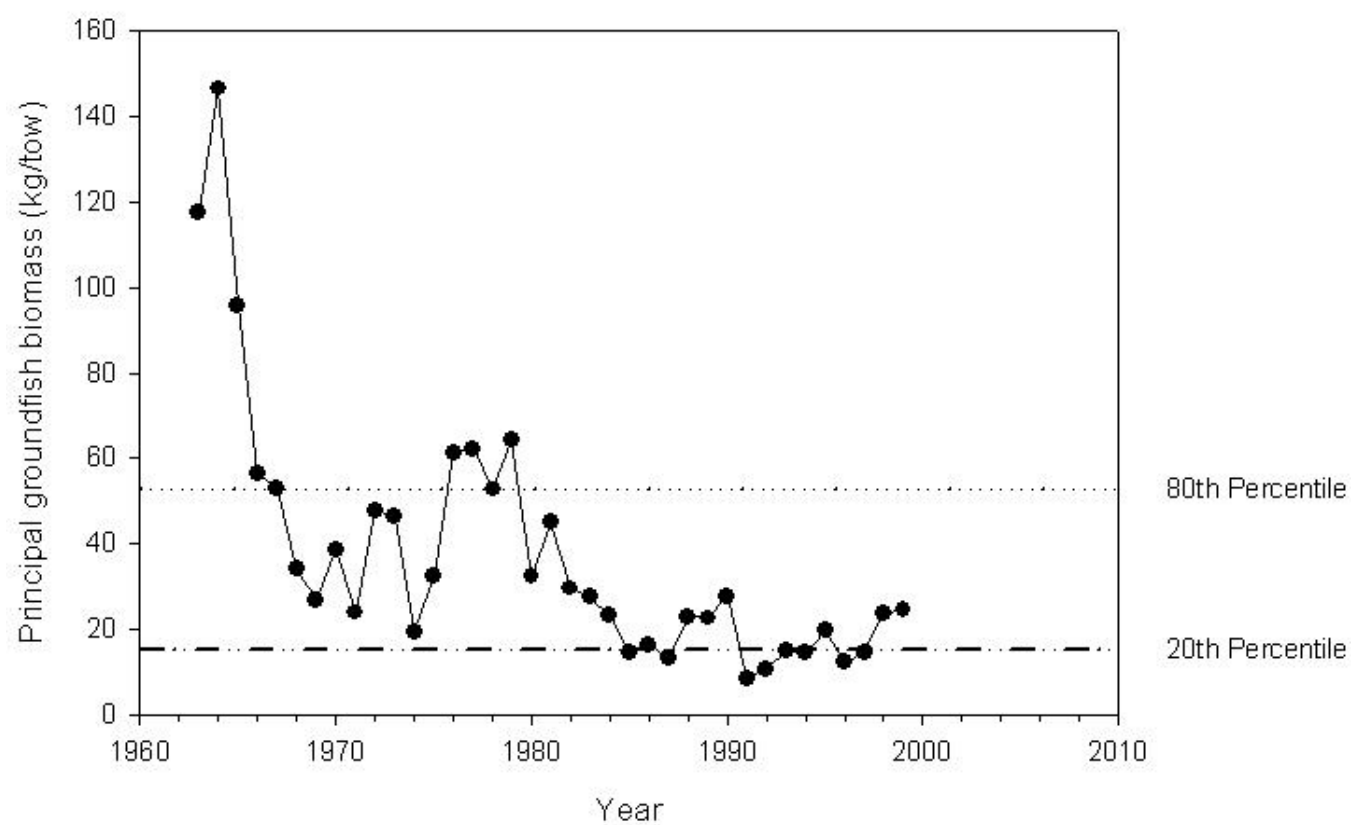


Figure B.16. *Elasmobranch biomass for Georges Bank from autumn bottom trawl survey*

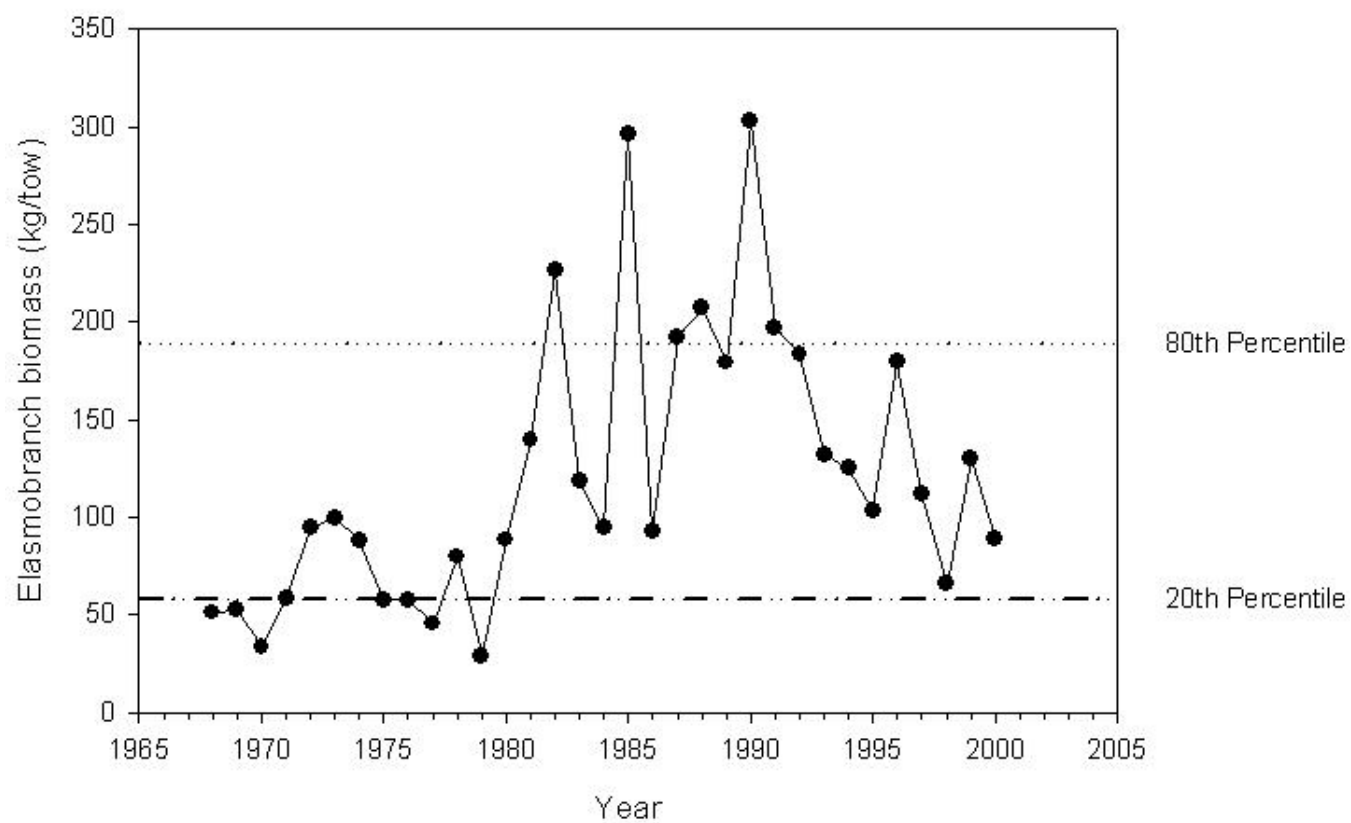


Figure B.17. *Principal pelagics biomass estimates from recent assessments*

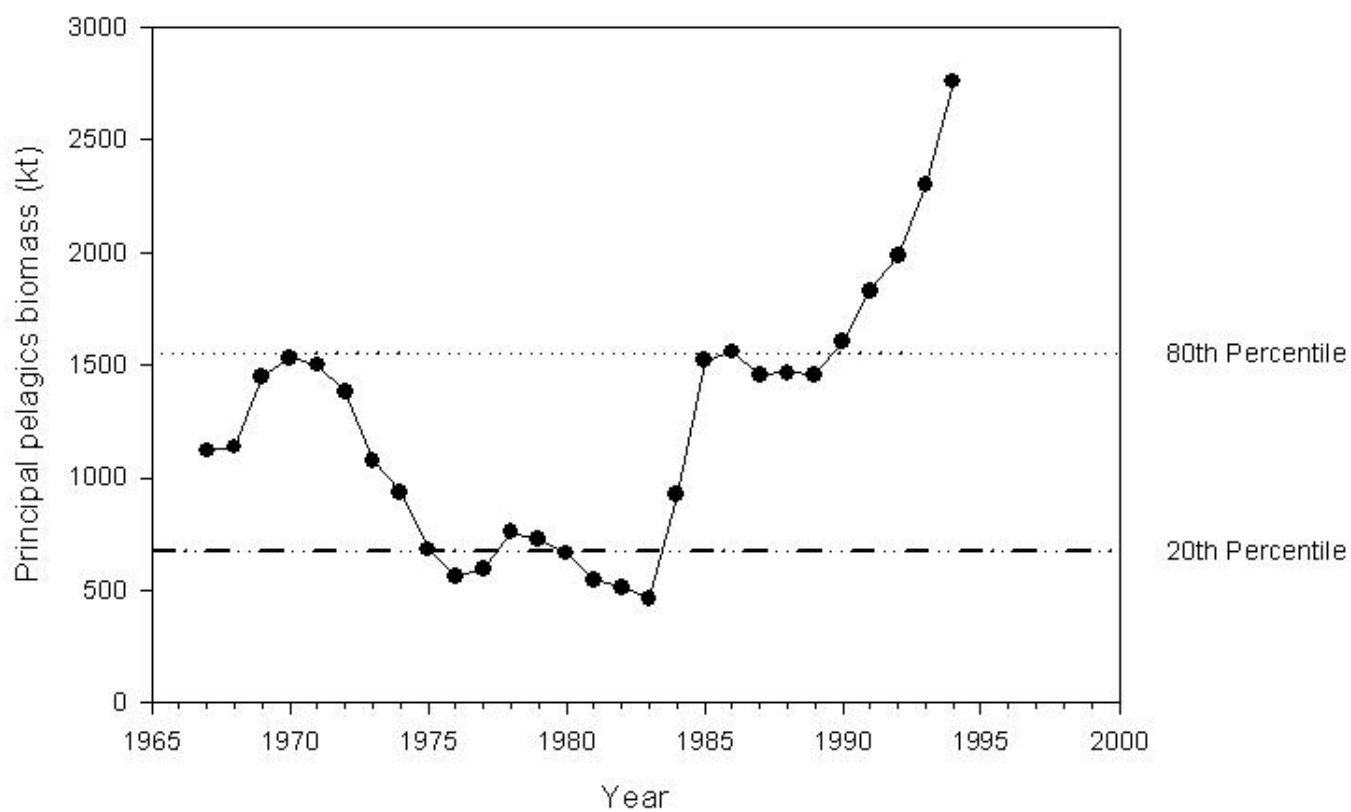


Figure B.18. *Cephalopod biomass for Georges Bank from fall bottom trawl survey*

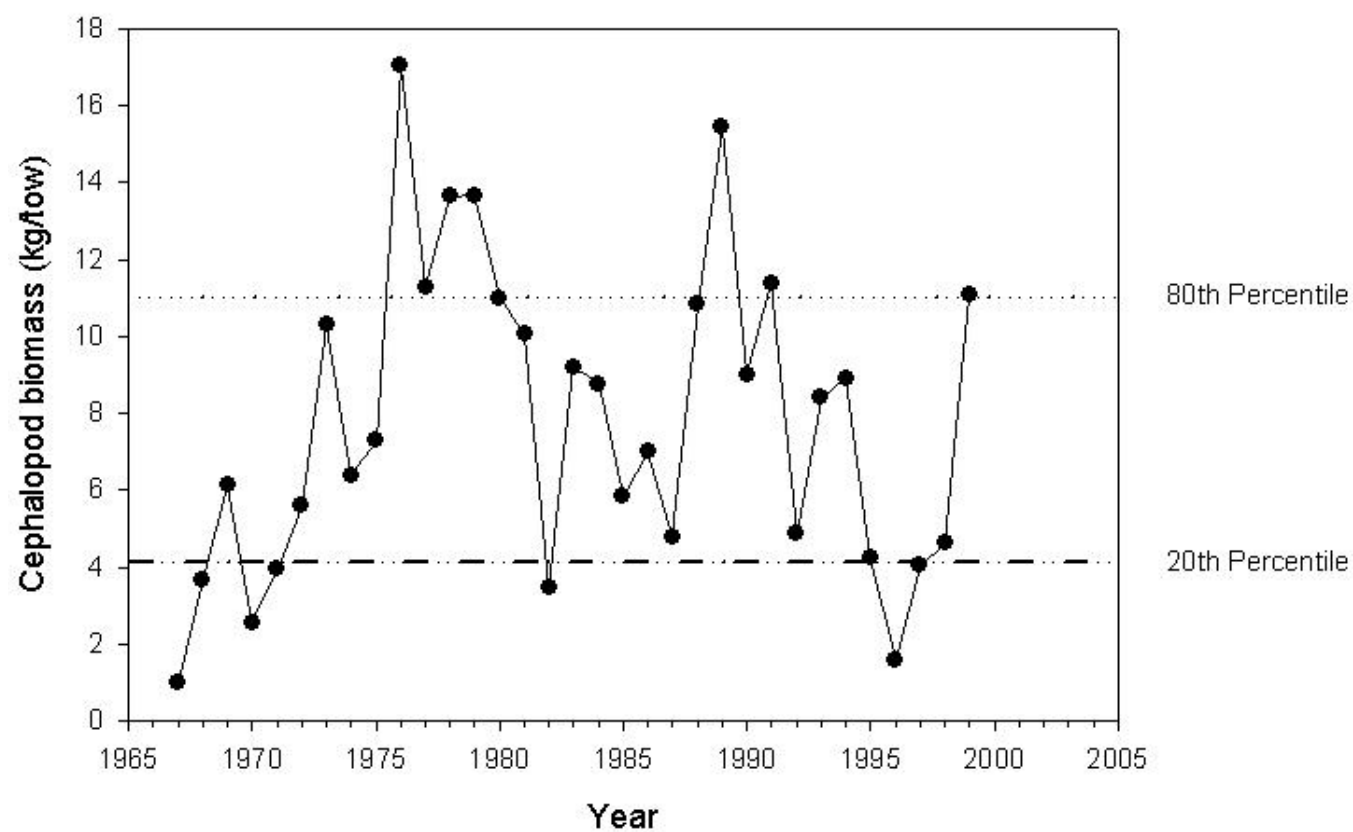


Figure B.19. *Frequency of occurrence of parasitic nematodes in all predators*

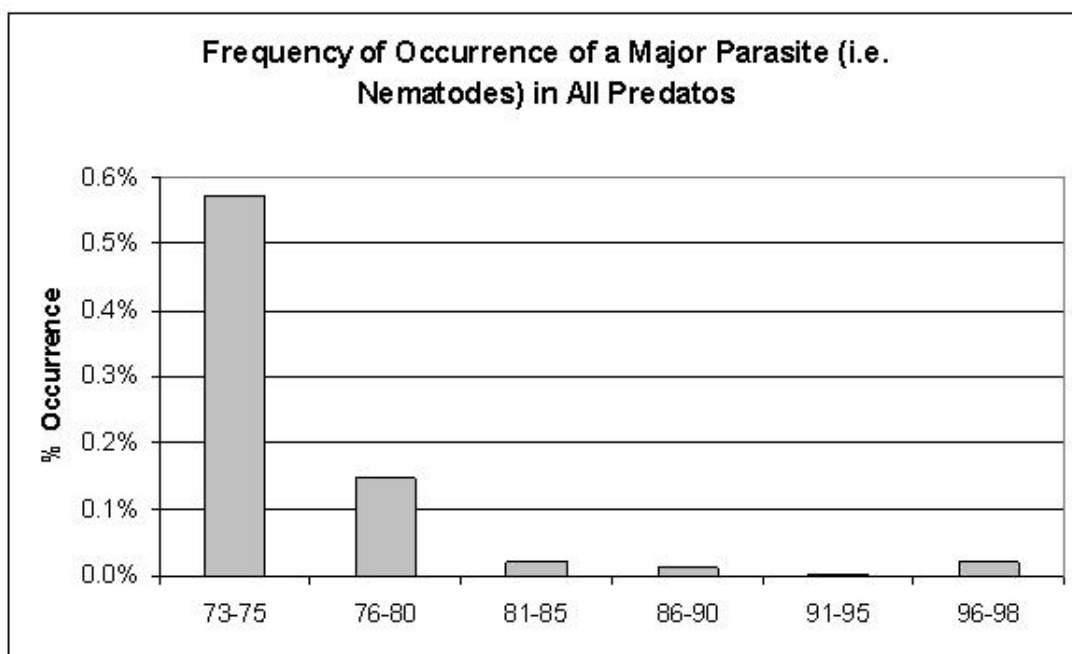


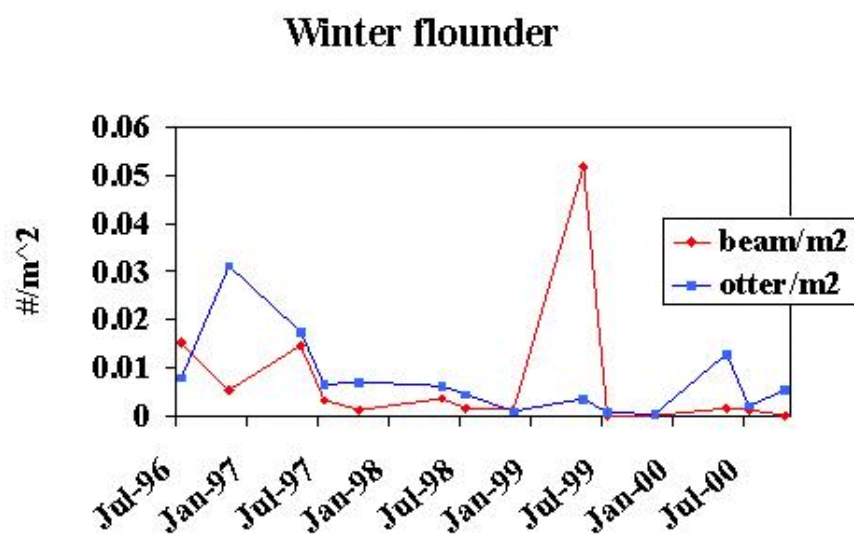
Figure B.20. *Winter flounder collected by beam and otter trawls*



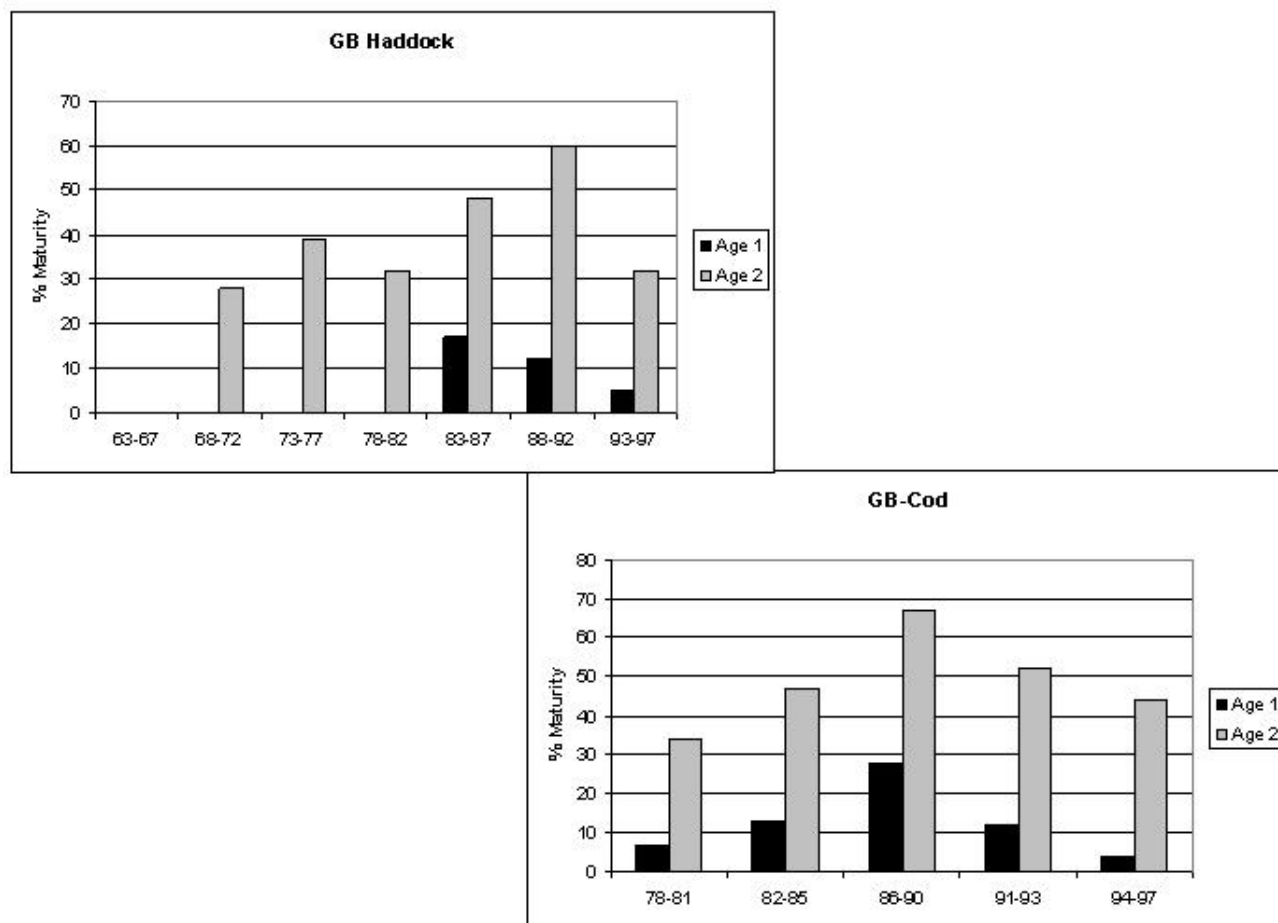
Figure B.21. *Haddock and cod % maturity for ages 1 and 2*

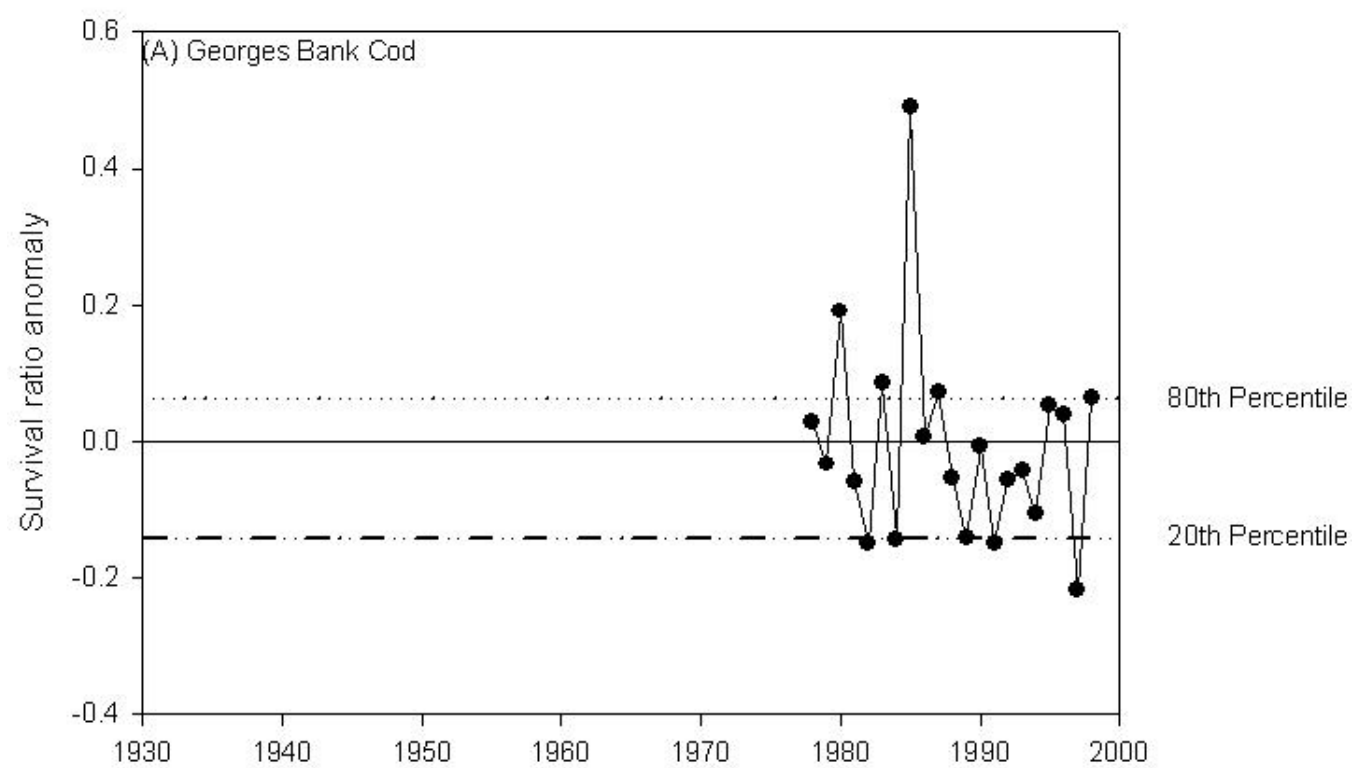
Figure B.22. *Cod survival ratio anomaly*

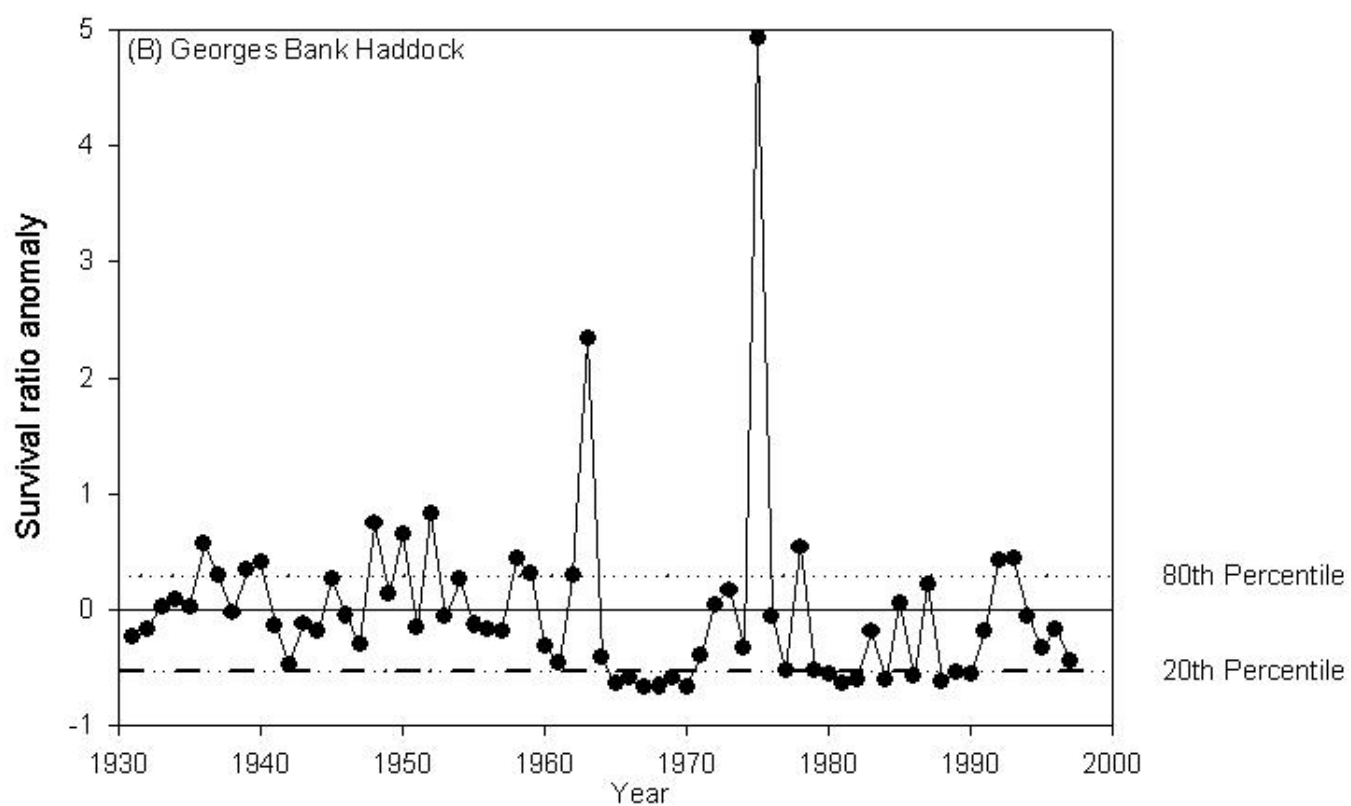
Figure B.23. *Haddock survival ratio anomaly*

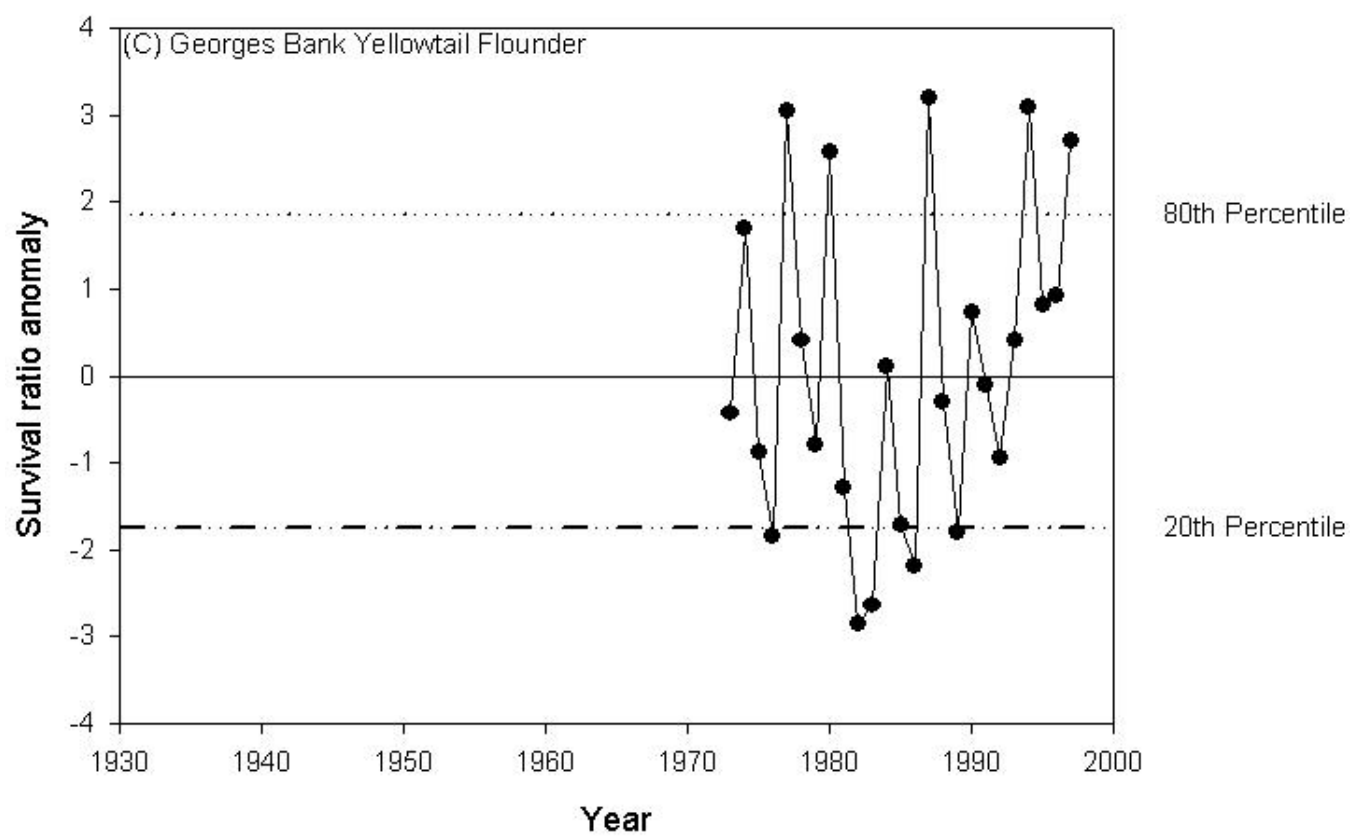
Figure B.24. *Yellowtail flounder survival ratio anomaly*

Figure B.25a. *Total biomass for all from both fall and spring bottom trawl surveys*

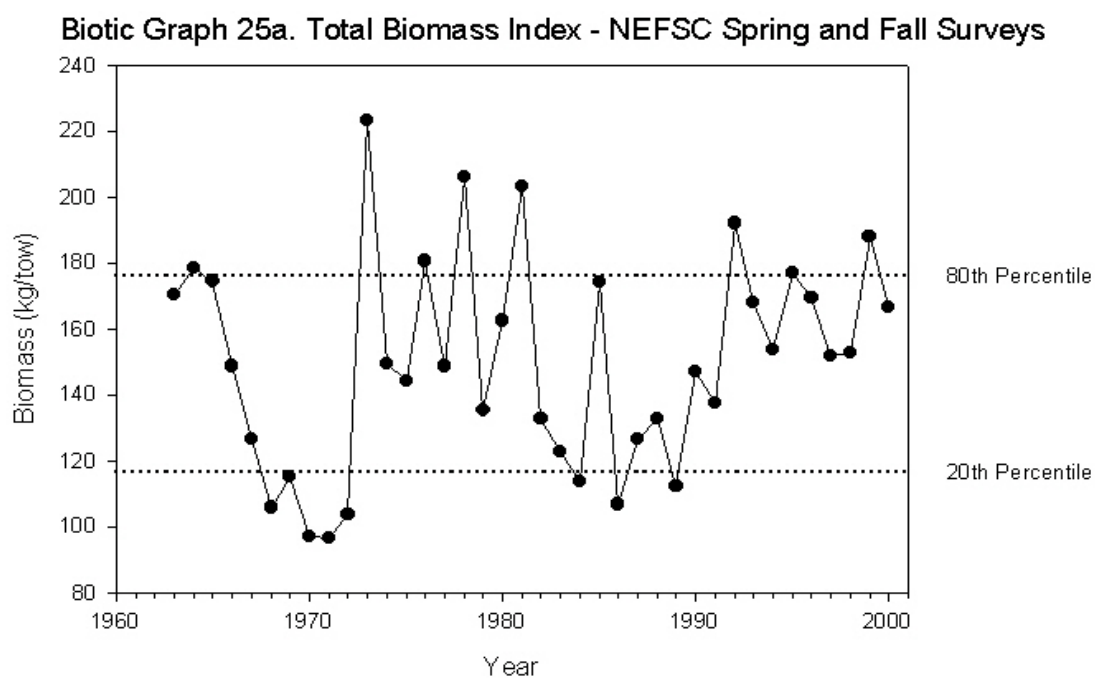


Figure B.25b. *Total biomass from both fall and spring bottom trawl surveys*

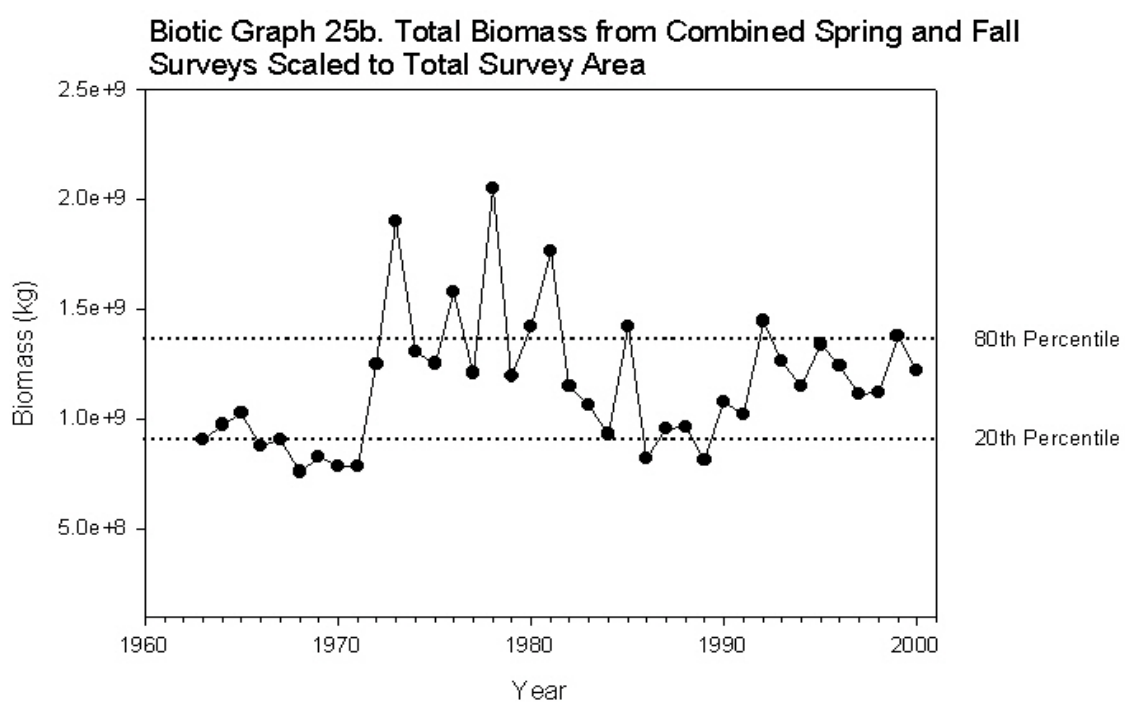


Figure B.26. *Mean length of all species collected in fall and spring bottom trawl*

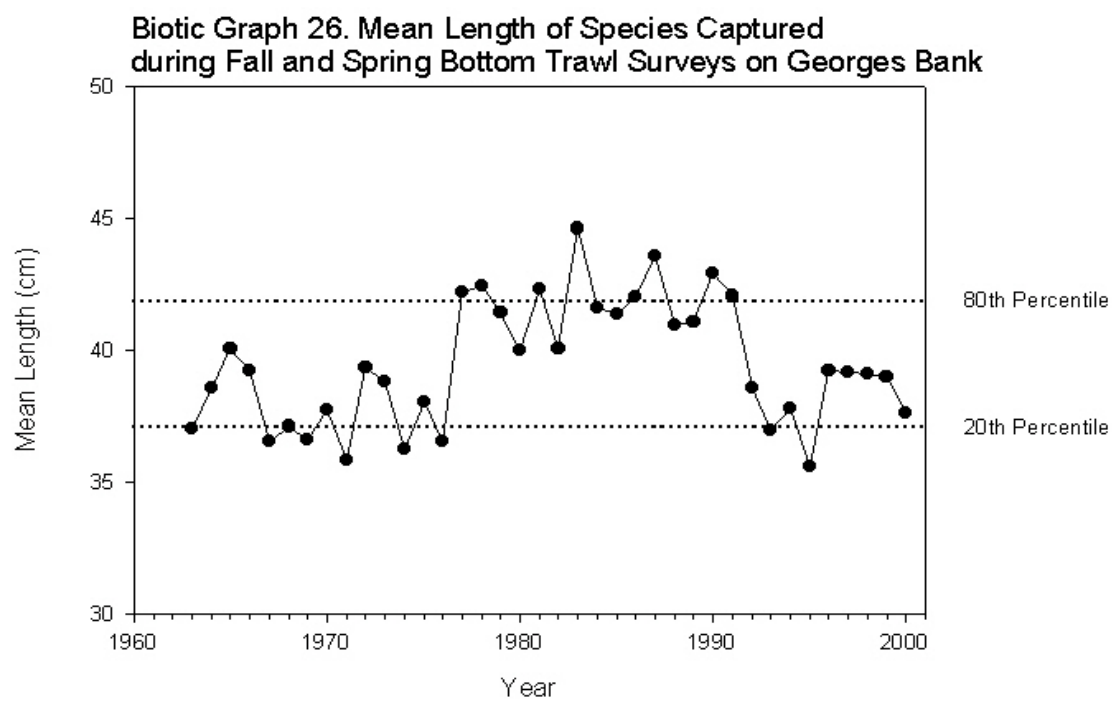


Figure B.27a. *Abundance of various guilds in fall and spring bottom trawl surveys*

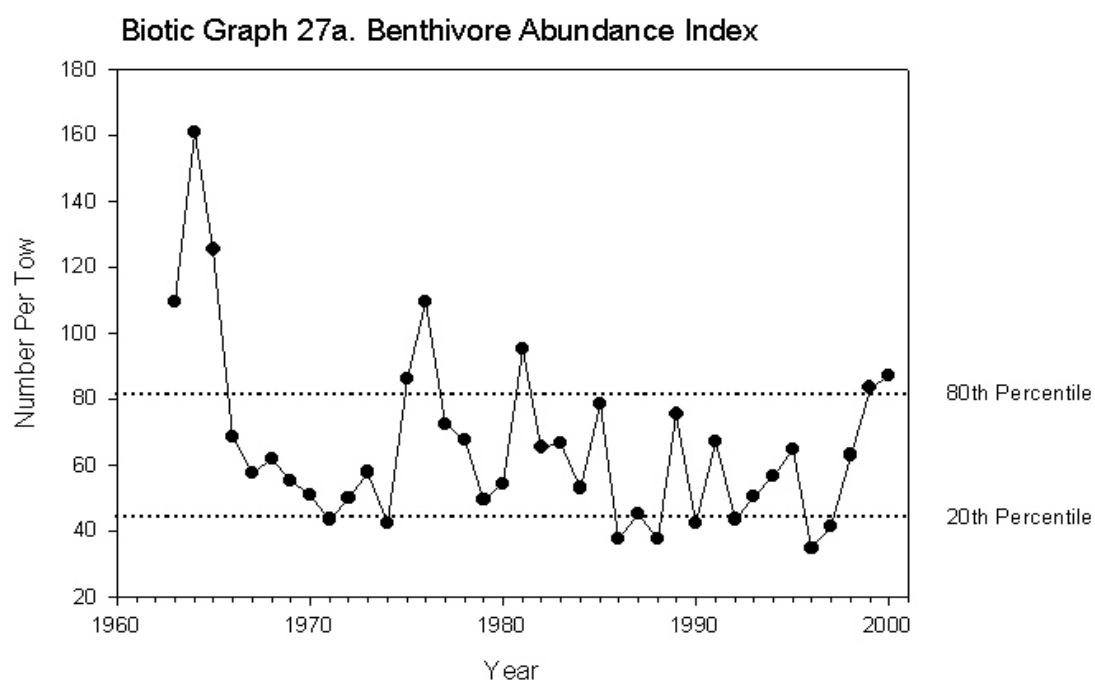




Figure B.27b. *Abundance of various guilds in fall and spring bottom trawl surveys*

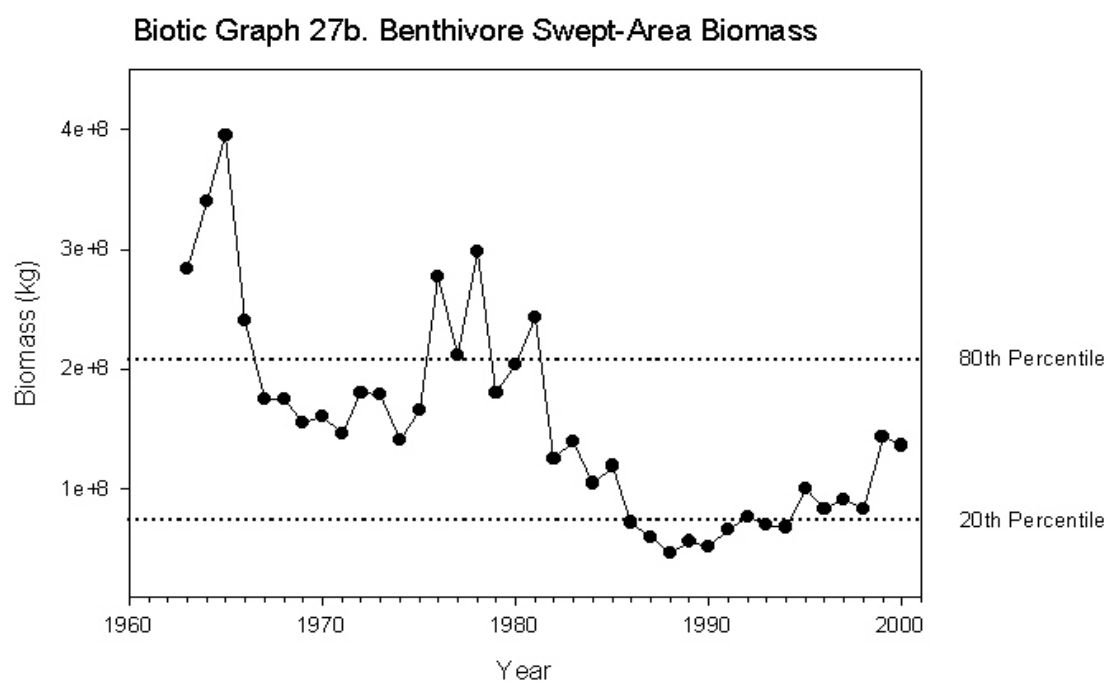


Figure B.27c. *Abundance of various guilds in fall and spring bottom trawl surveys*

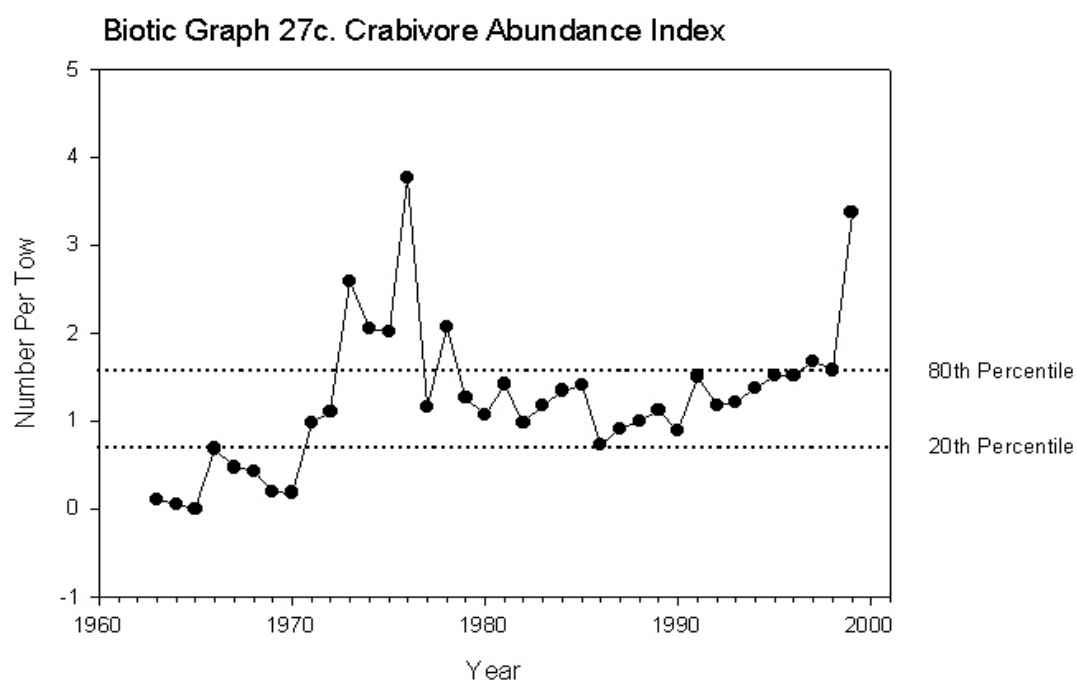


Figure B.27d. *Abundance of various guilds in fall and spring bottom trawl surveys*

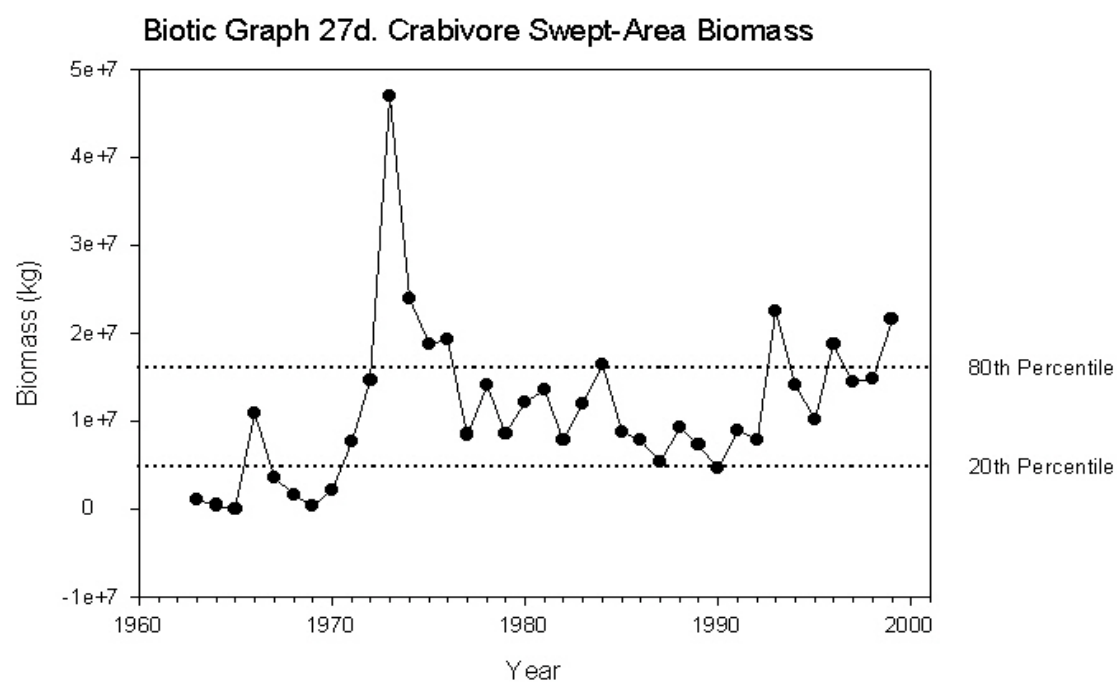


Figure B.27e. *Abundance of various guilds in fall and spring bottom trawl surveys*

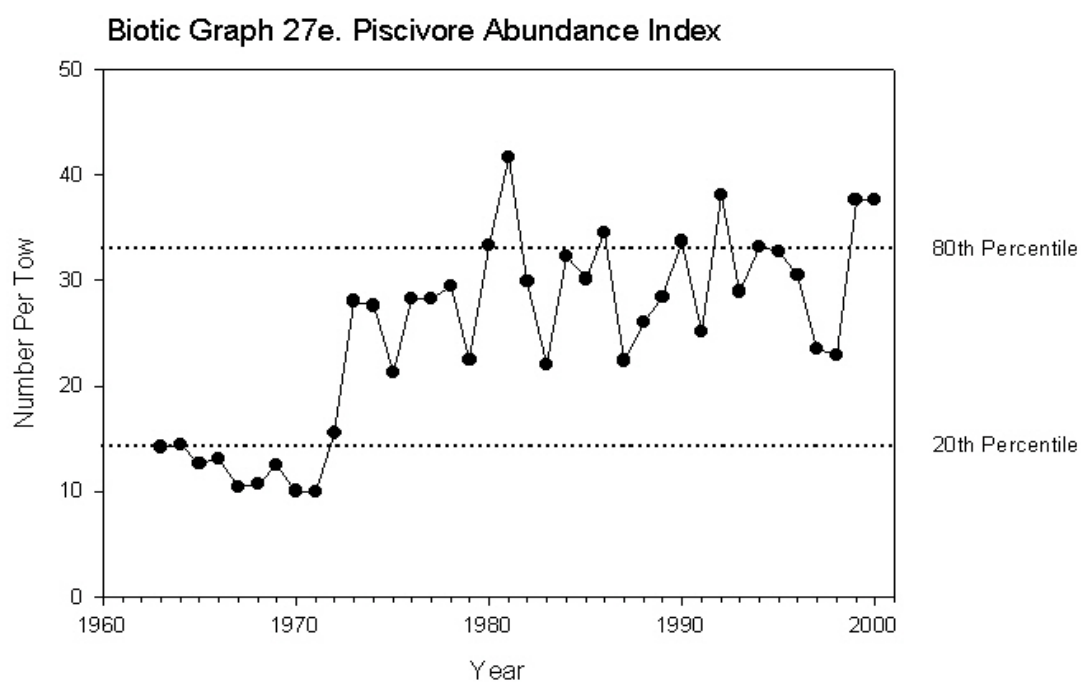


Figure B.27f. *Abundance of various guilds in fall and spring bottom trawl surveys*

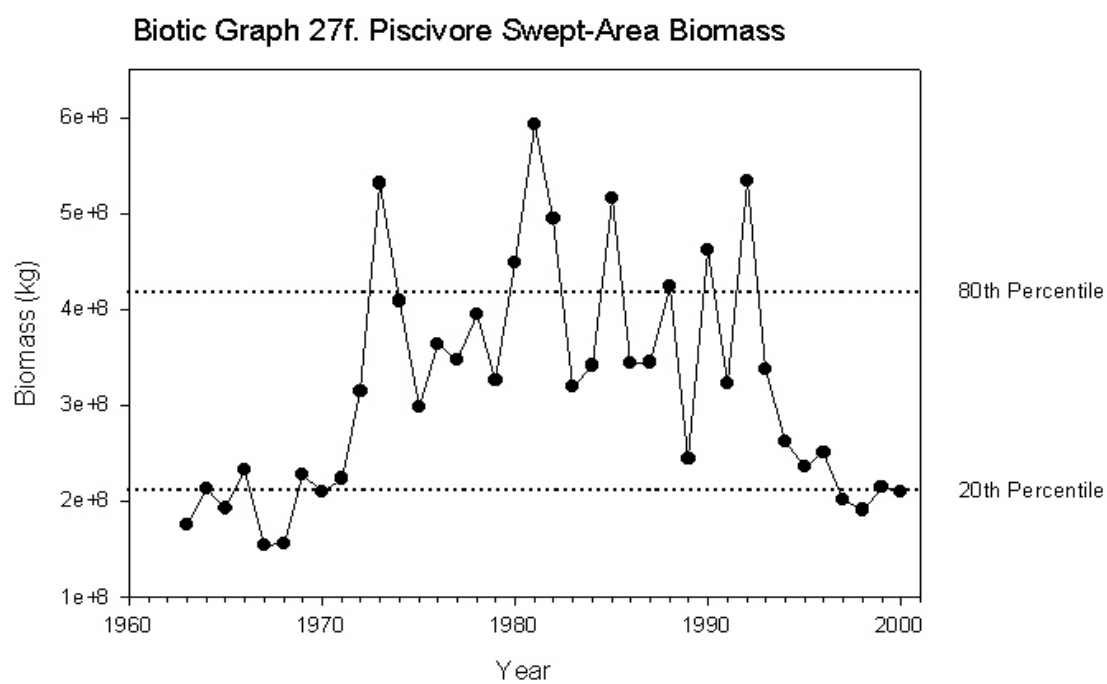


Figure B.27g. *Abundance of various guilds in fall and spring bottom trawl surveys*

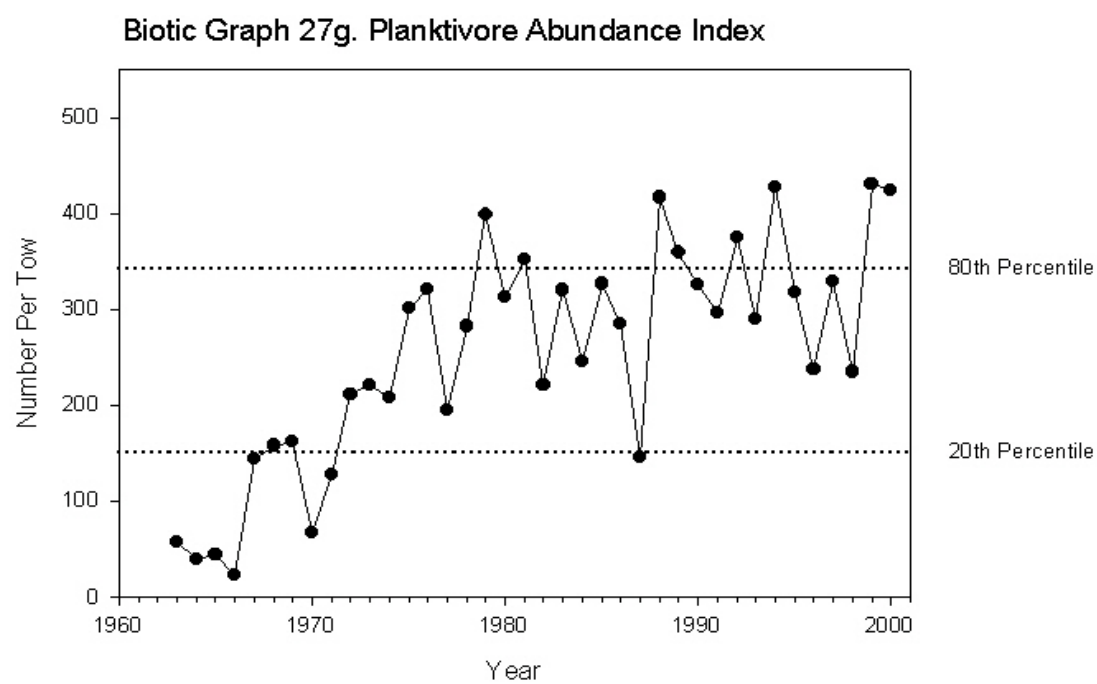


Figure B.27h. *Abundance of various guilds in fall and spring bottom trawl surveys*

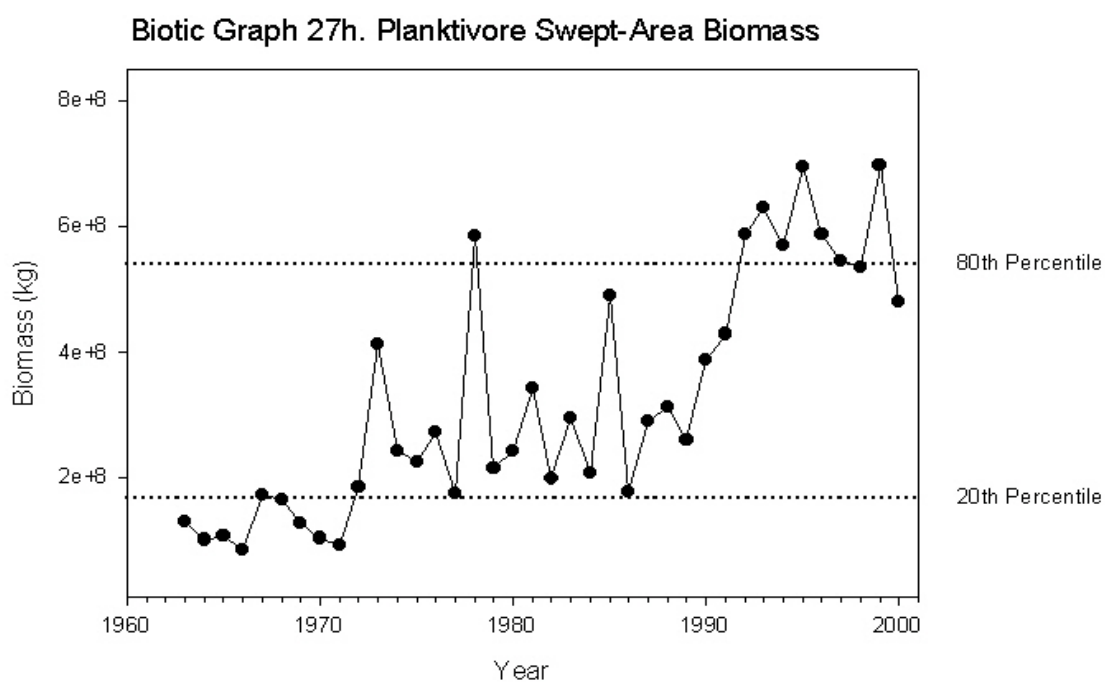


Figure B.27i. *Abundance of various guilds in fall and spring bottom trawl surveys*

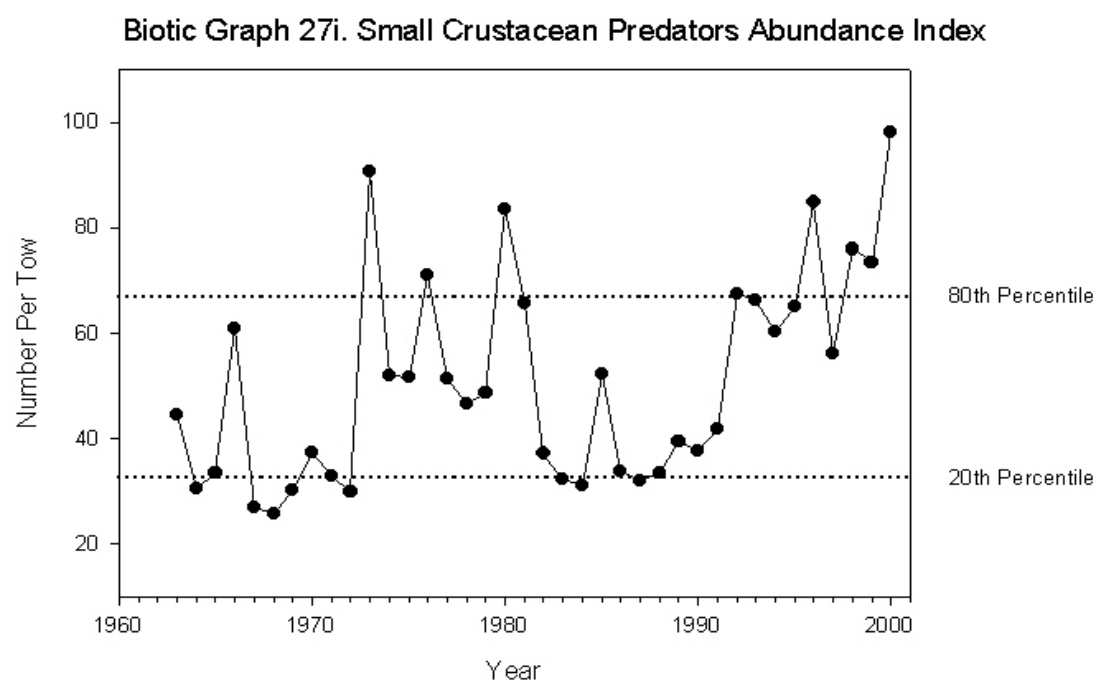




Figure B.27j. *Abundance of various guilds in fall and spring bottom trawl surveys*

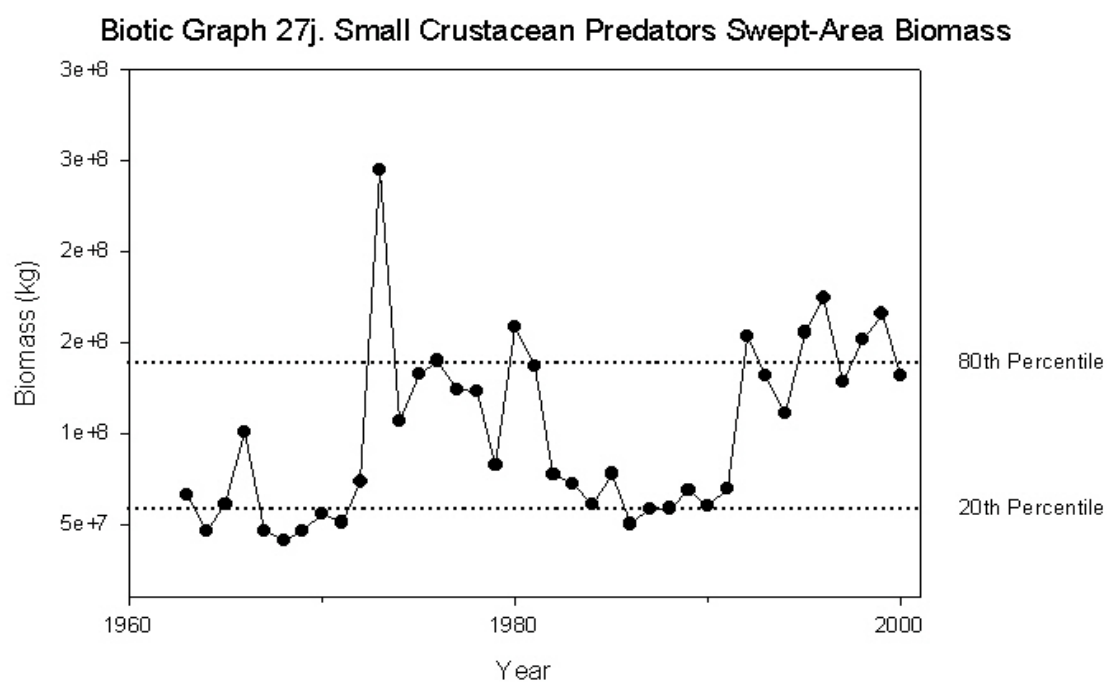


Figure B.27k. *Abundance of various guilds in fall and spring bottom trawl surveys*

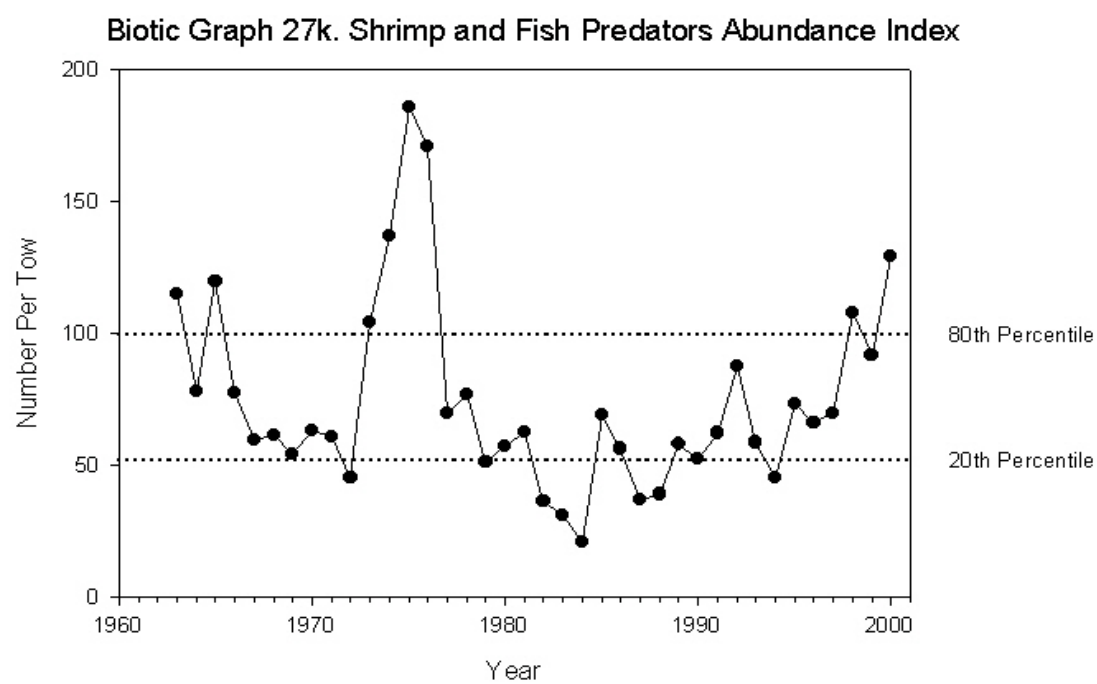


Figure B.271. *Abundance of various guilds in fall and spring bottom trawl surveys*

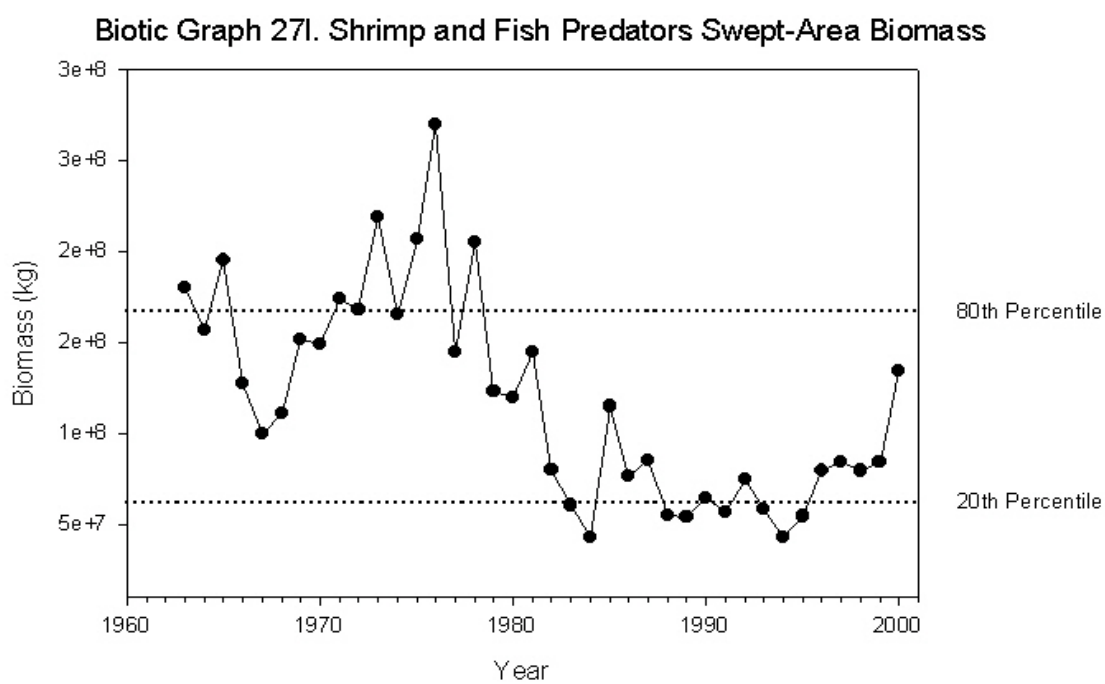


Figure B.28. *Gulf of Maine total species diversity from bottom trawl survey*

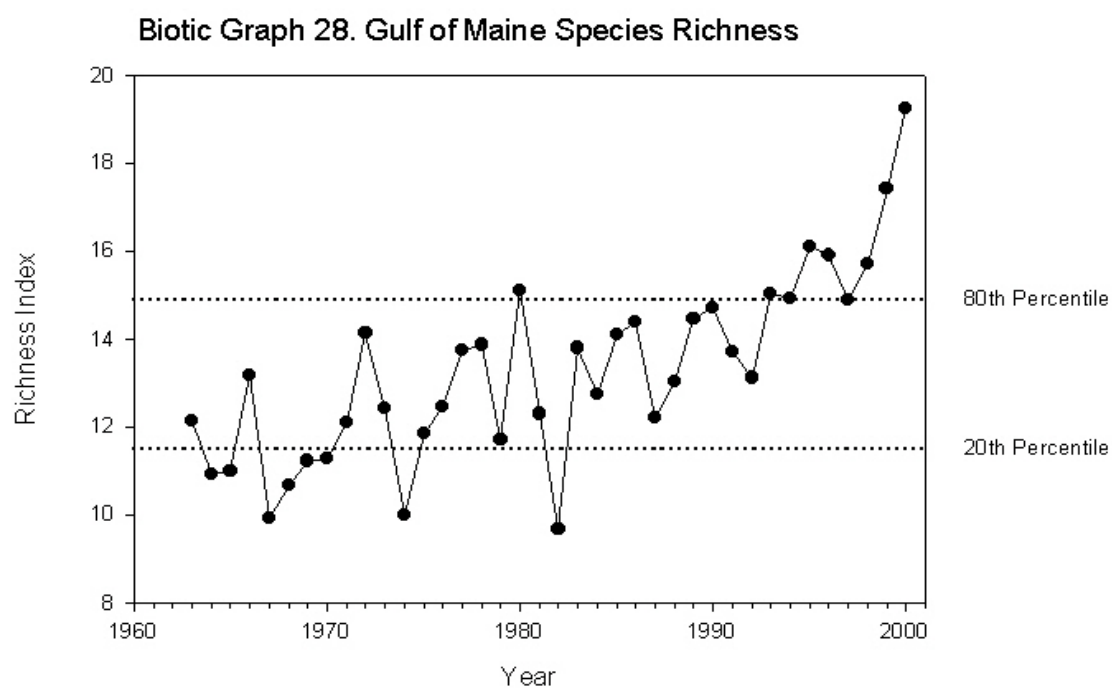


Figure B.29. *Gulf of Maine abundant species diversity from bottom trawl survey*

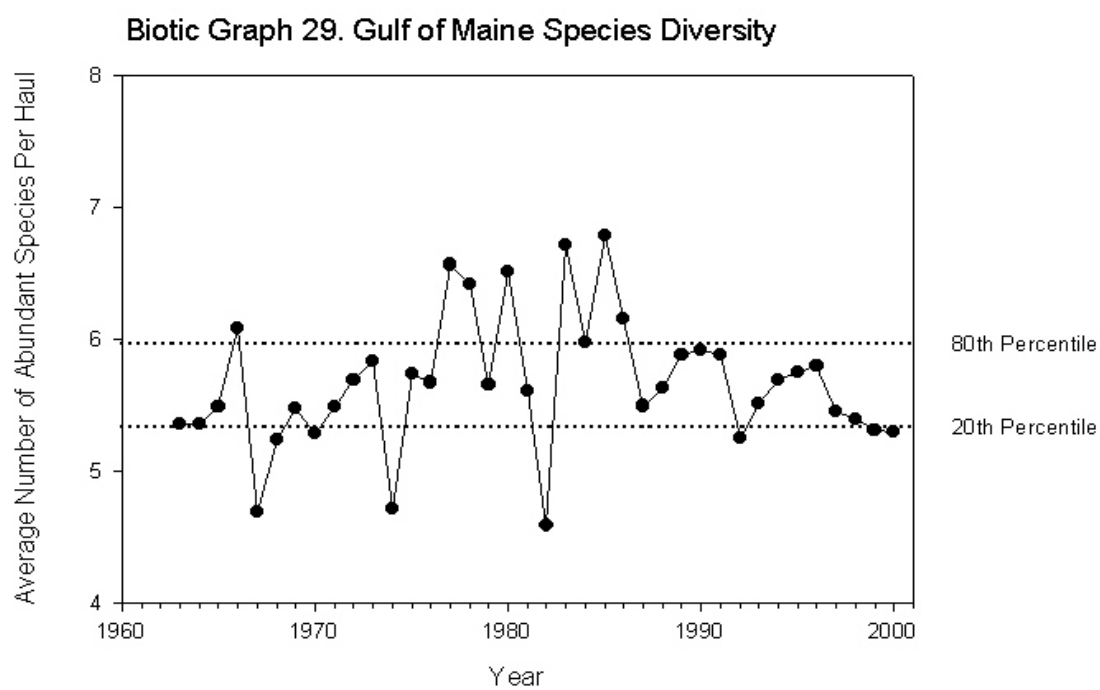


Figure B.30. *Gulf of Maine species evenness from bottom trawl survey*

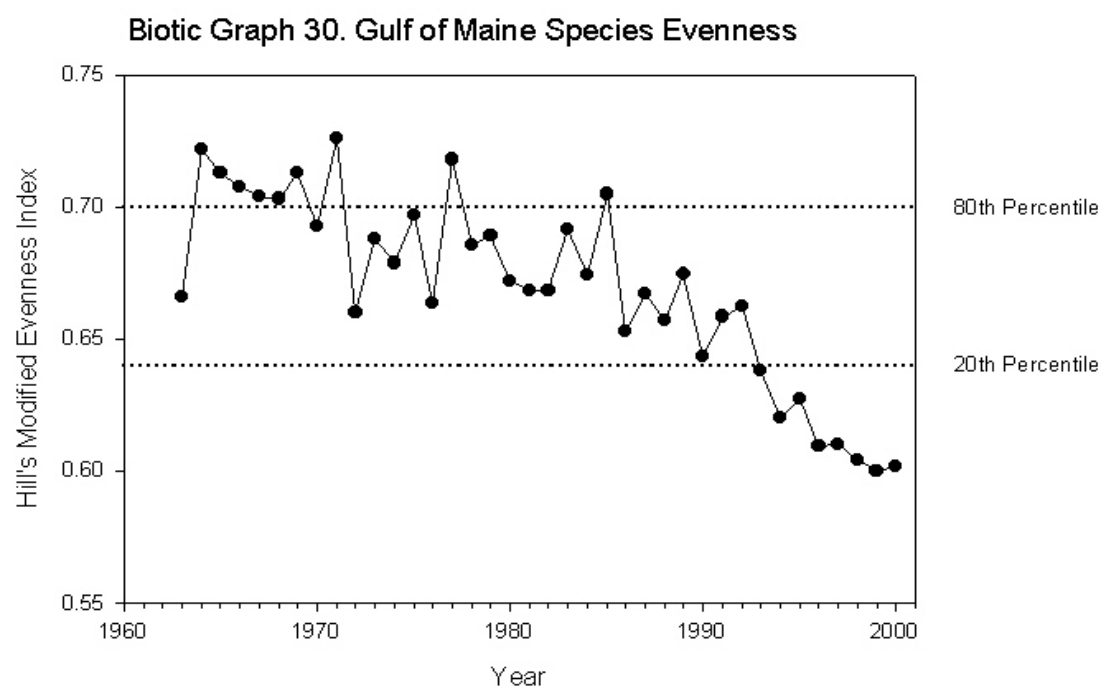


Figure B.31. *Georges Bank total species diversity from bottom trawl survey*

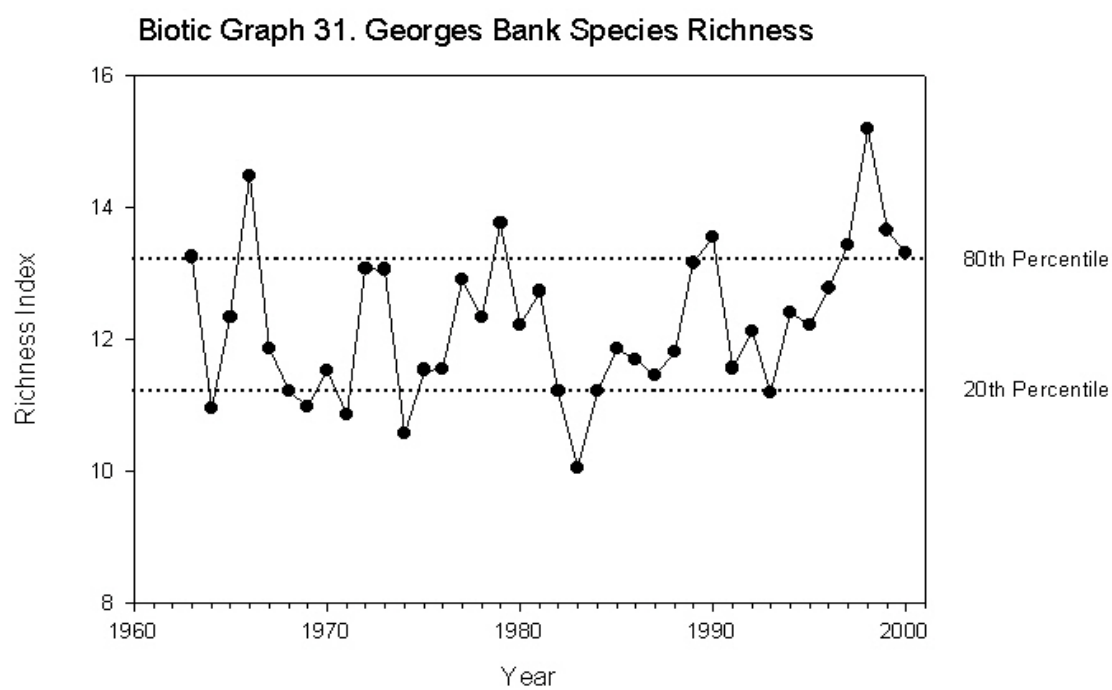


Figure B.32. *Georges Bank abundant species diversity from bottom trawl surveys*

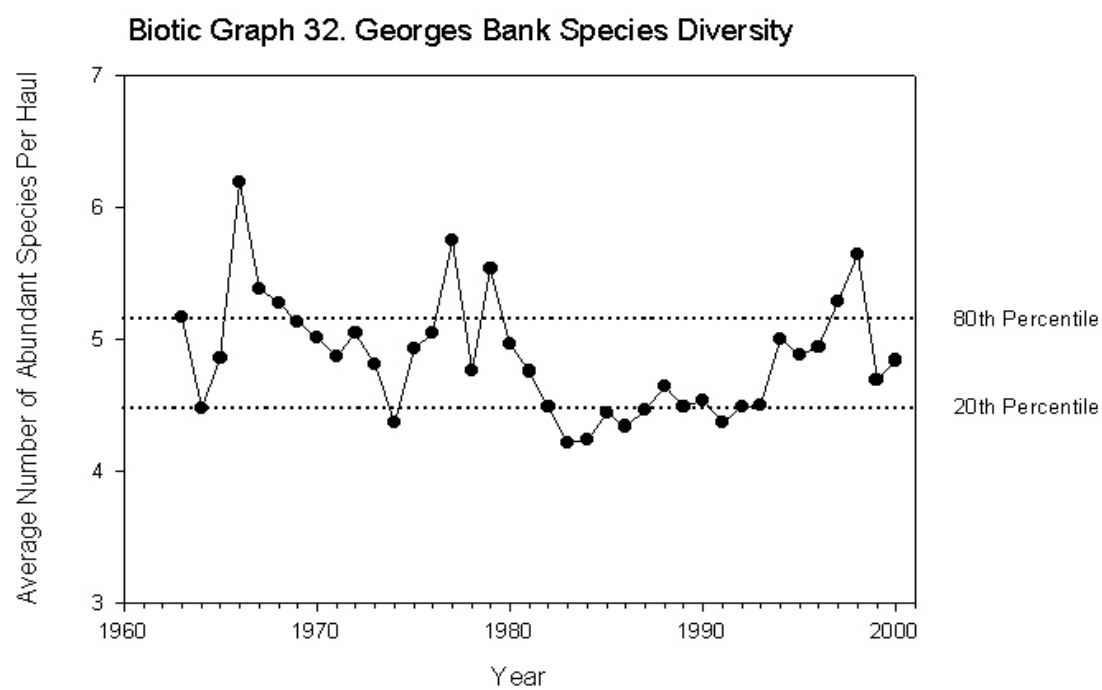




Figure B.33. *Georges Bank species evenness from bottom trawl surveys*

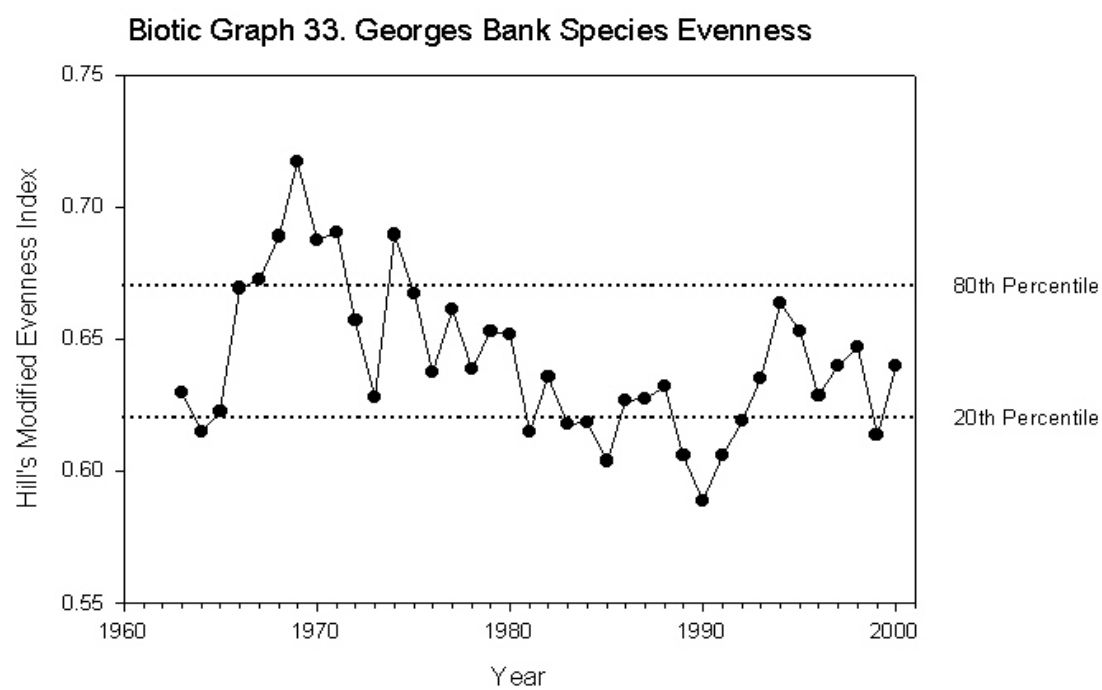


Figure B.34. *Mid-Atlantic Bight total species diversity from bottom trawl surveys*

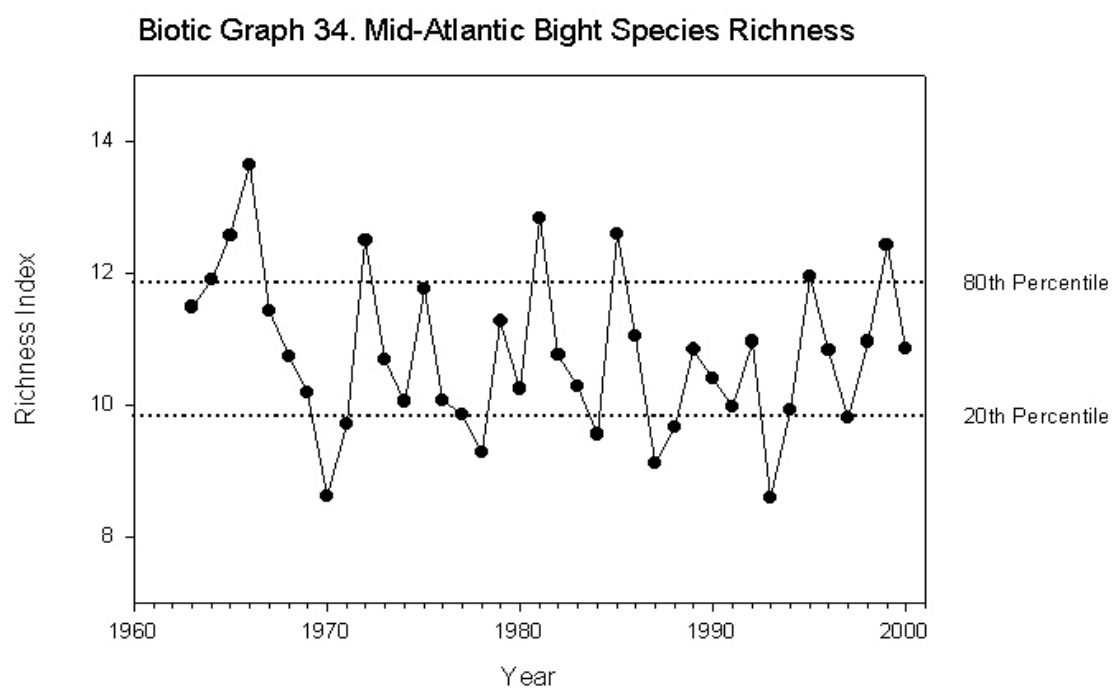


Figure B.35. *Mid-Atlantic Bight Abundant species diversity from bottom trawl surveys*

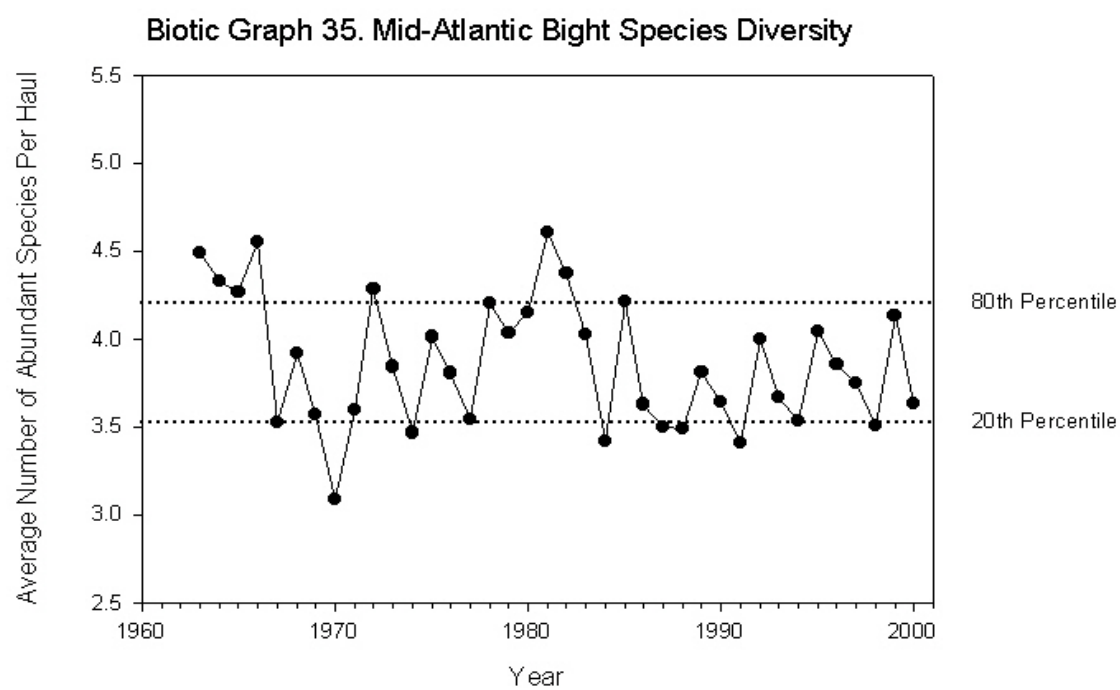


Figure B.36. *Mid-Atlantic Bight Species evenness from bottom trawl survey*

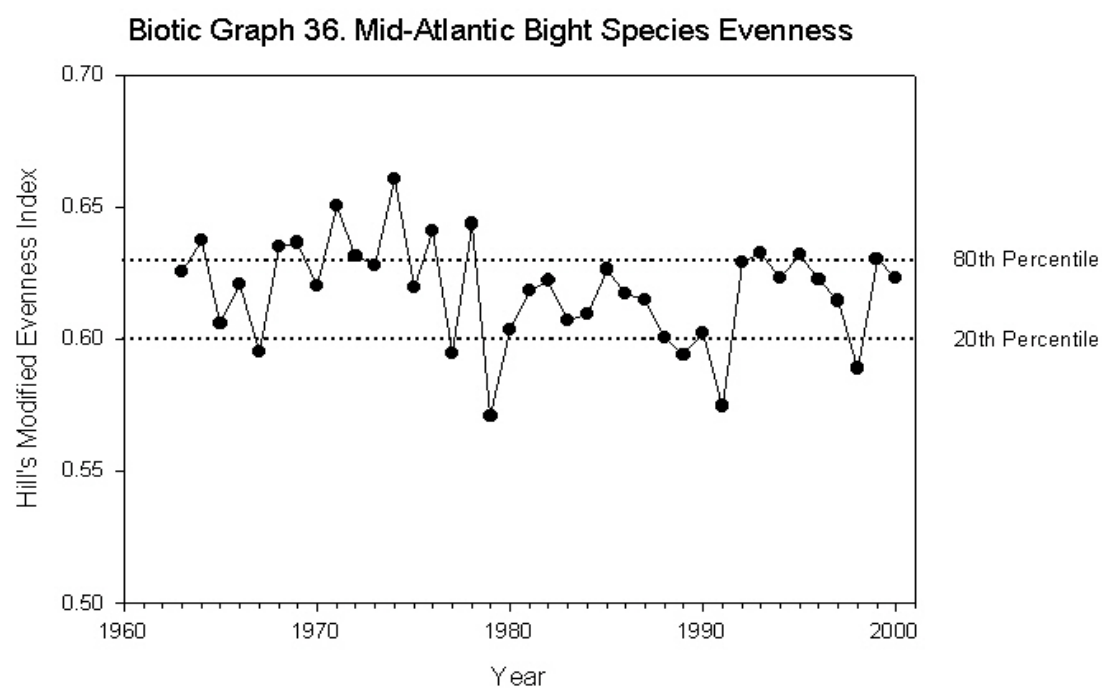


Figure B.37. *Silver hake linkage density*

Biotic Graph 37. Number of Silver Hake Predator and Prey Species

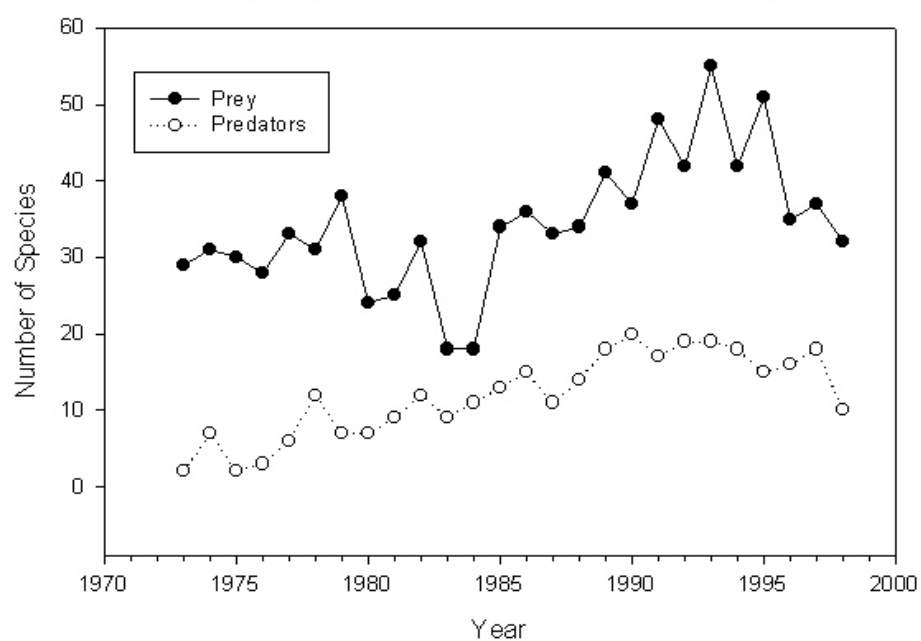


Figure B.38. *Total consumption by 12 piscivores*

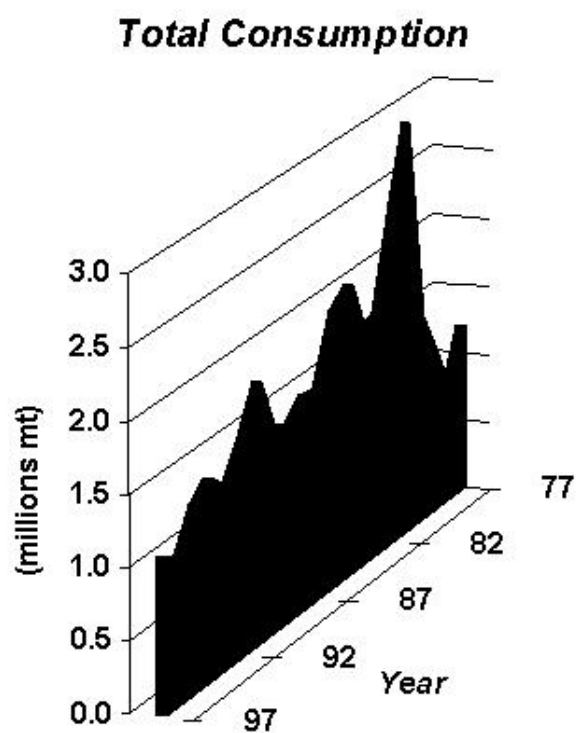


Figure B.39. *Total fish consumption by six piscivores on Georges Bank*

Six piscivores, GB

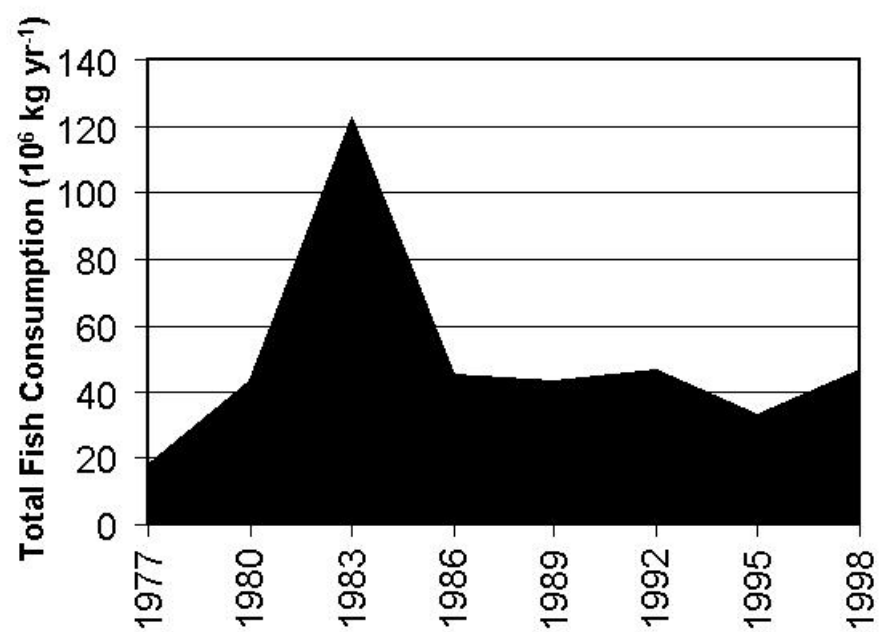


Figure B.40a. *Consumption of prey species by 12 piscivores*

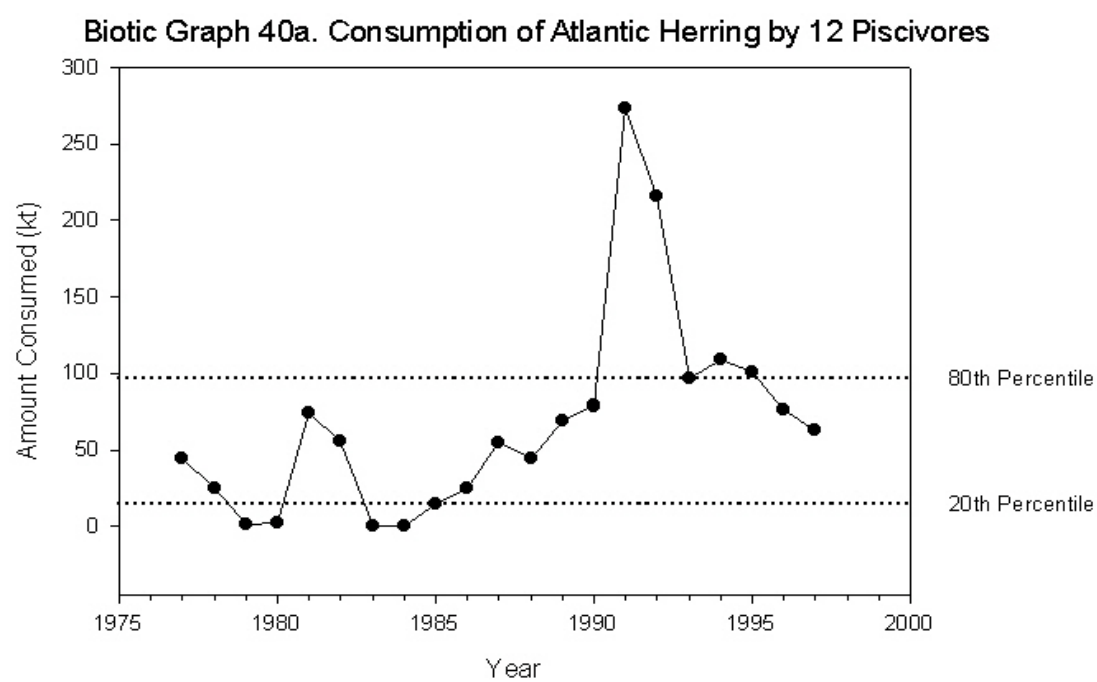




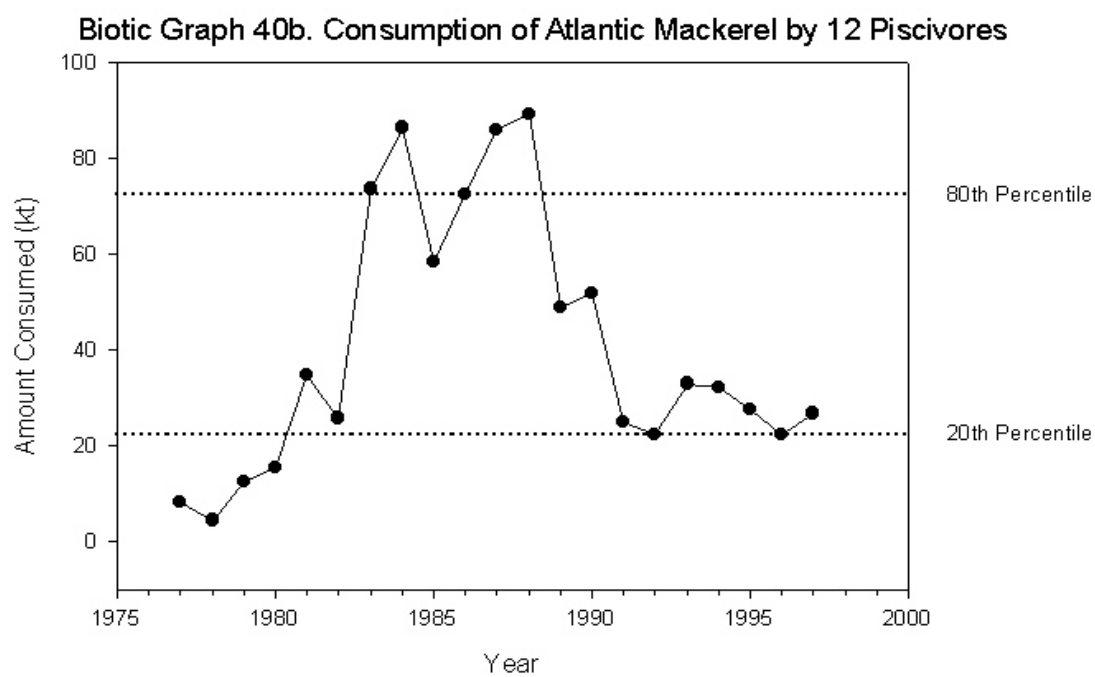
Figure B.40b. *Consumption of prey species by 12 piscivores*

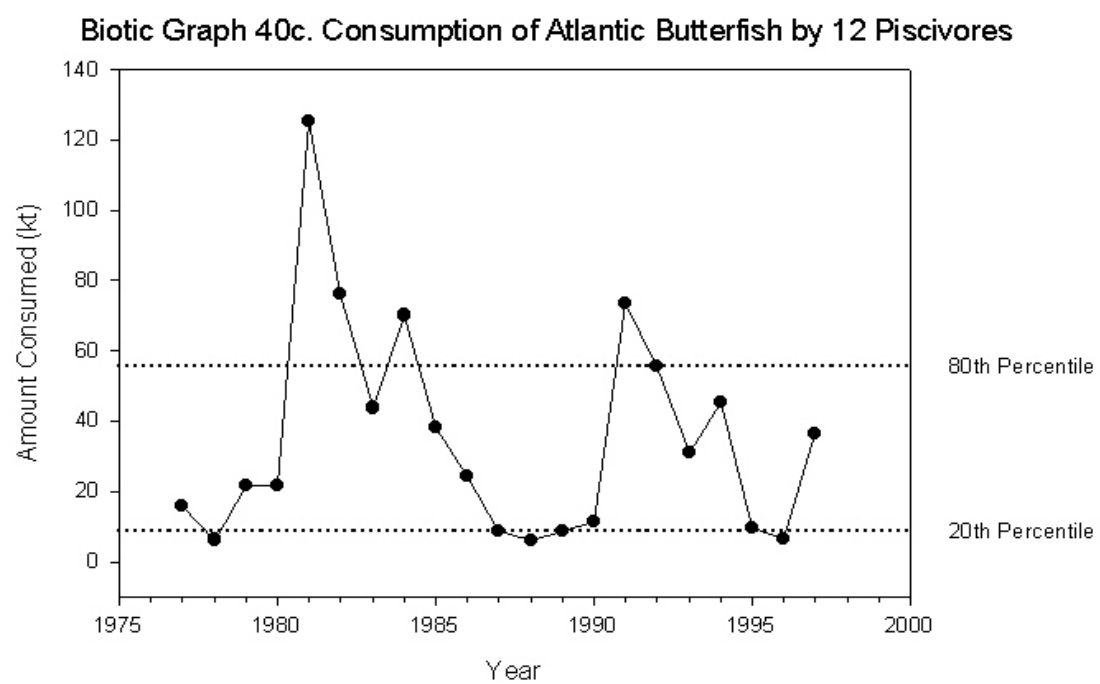
Figure B.40c. *Consumption of prey species by 12 piscivores*

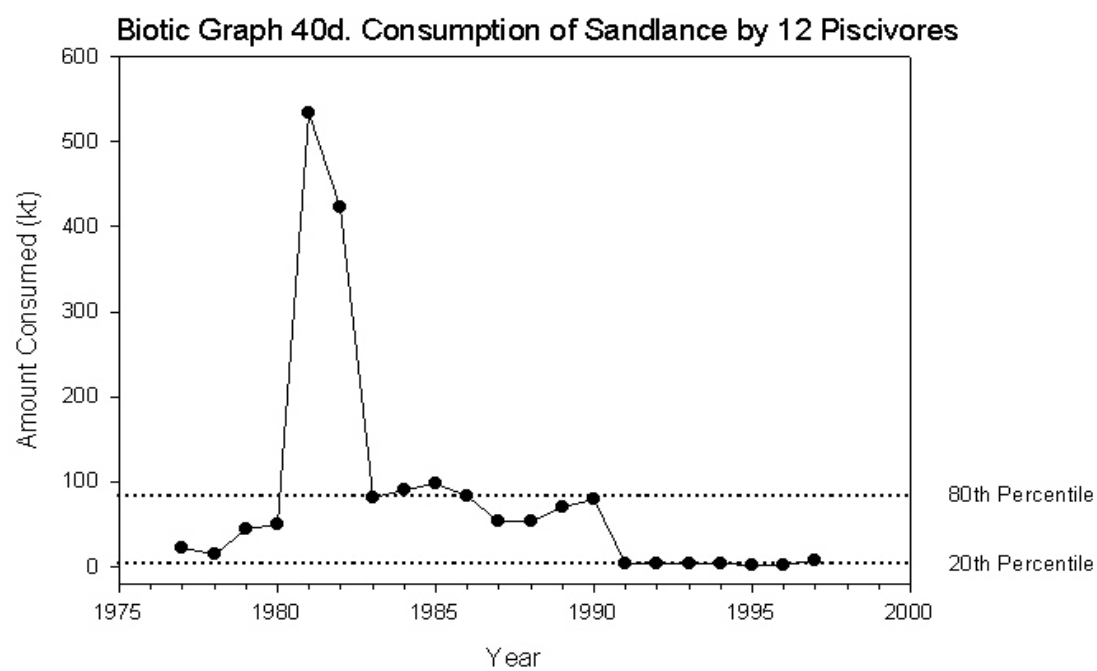
Figure B.40d. *Consumption of prey species by 12 piscivores*

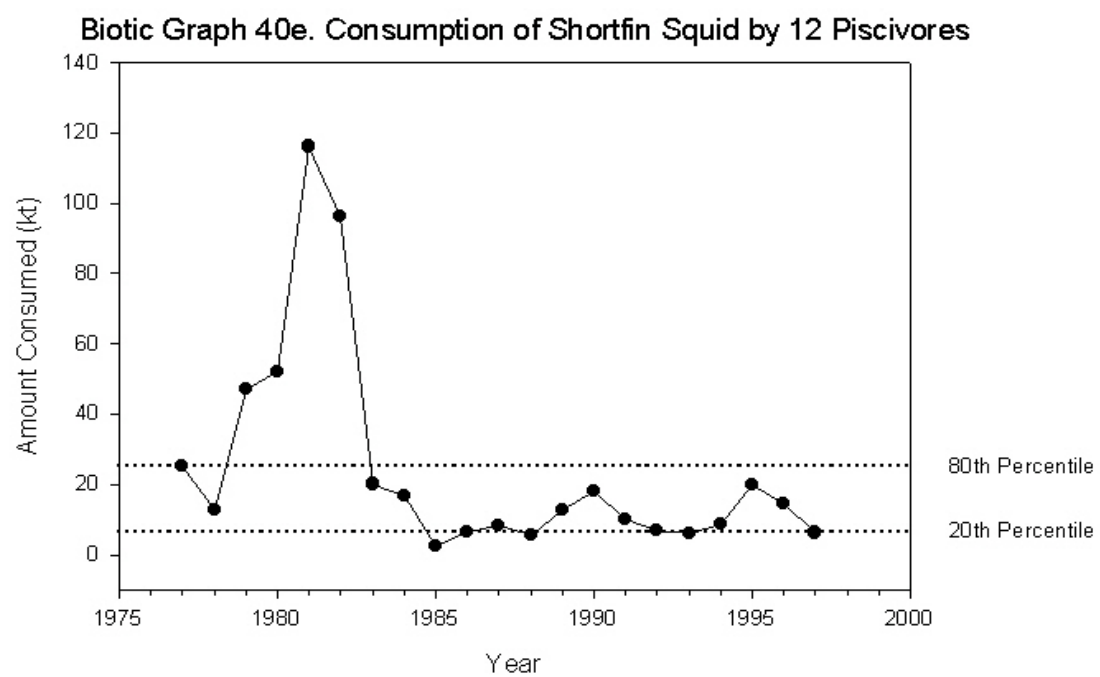
Figure B.40e. *Consumption of prey species by 12 piscivores*

Figure B.40f. *Consumption of prey species by 12 piscivores*

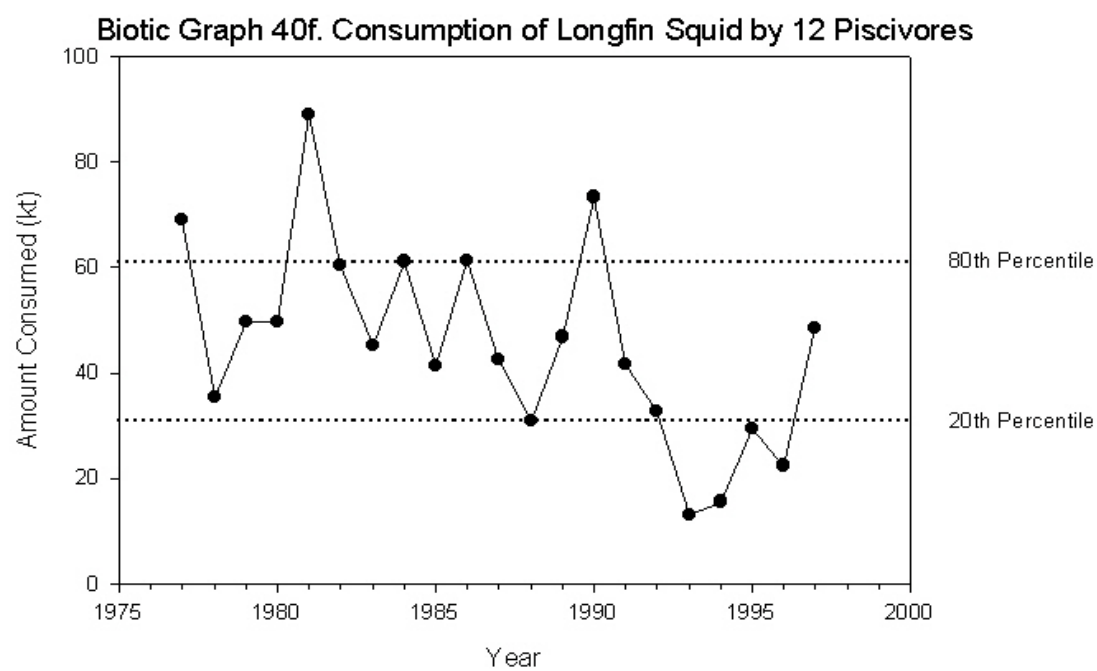


Figure B.41. *Snapshot of food web for three years in three different decades*

1977

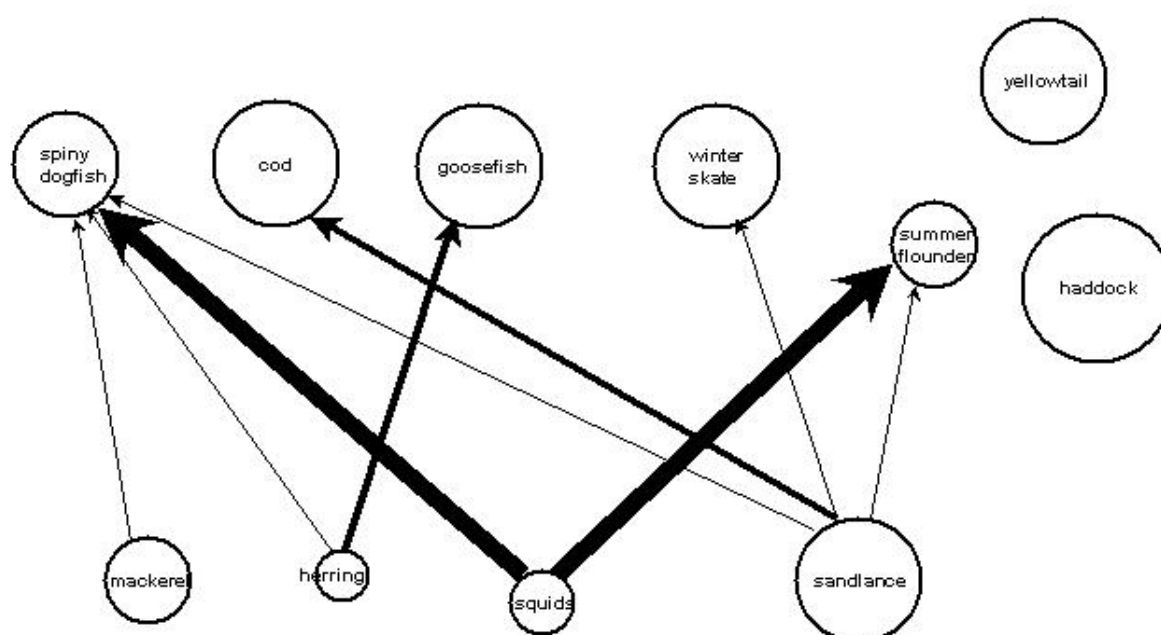


Figure B.42. *Snapshot of food web for three years in three different decades*

1987

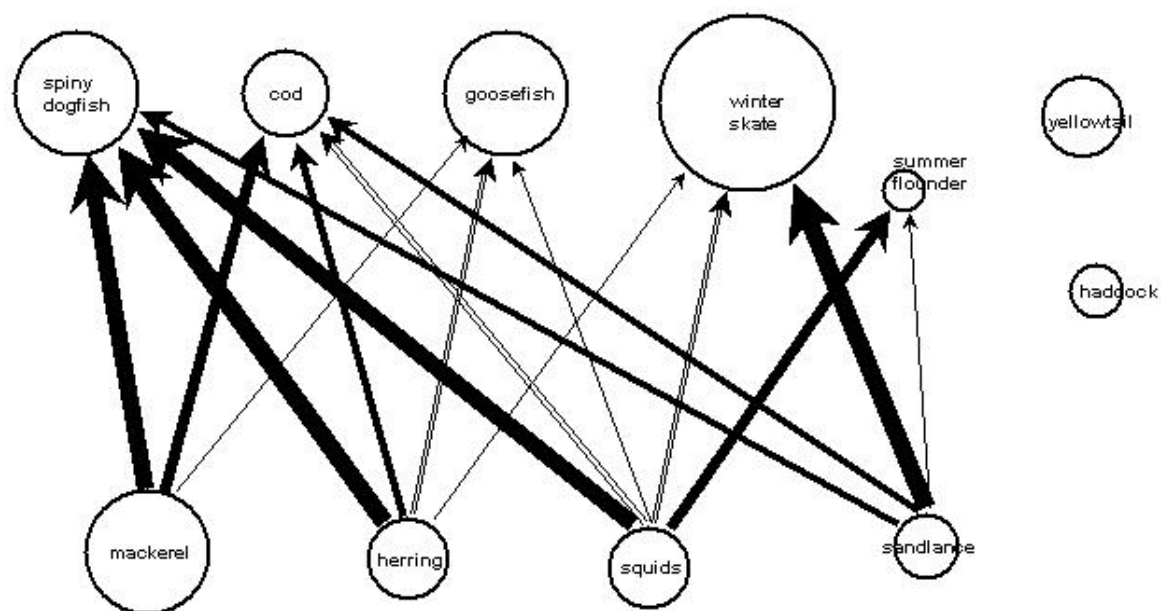


Figure B.43. *Snapshot of food web for three years in three different decades*

1997

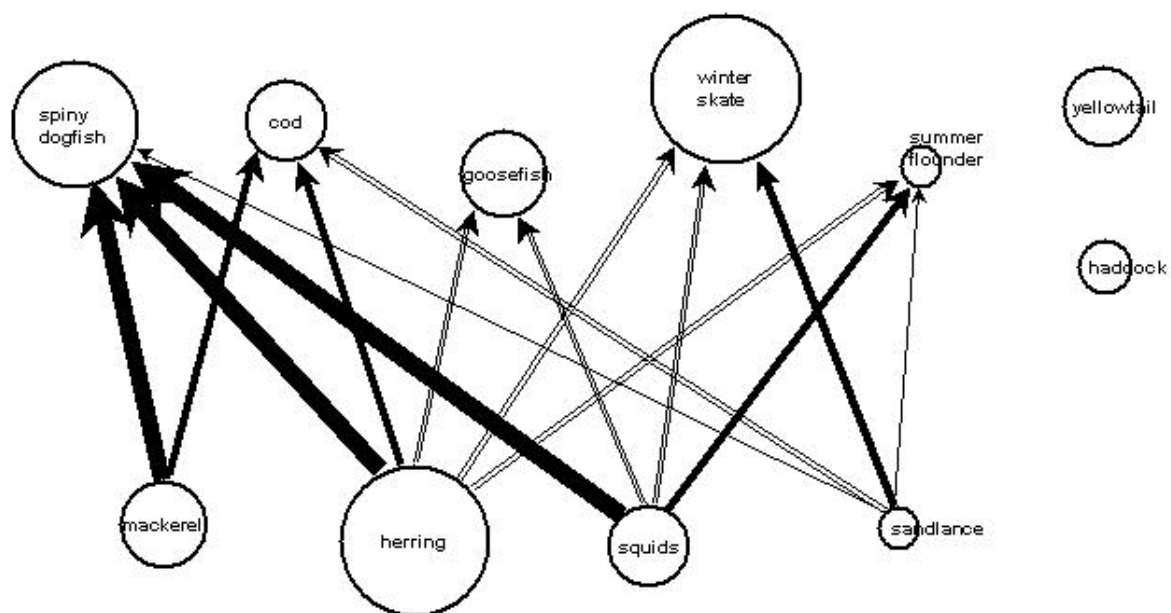




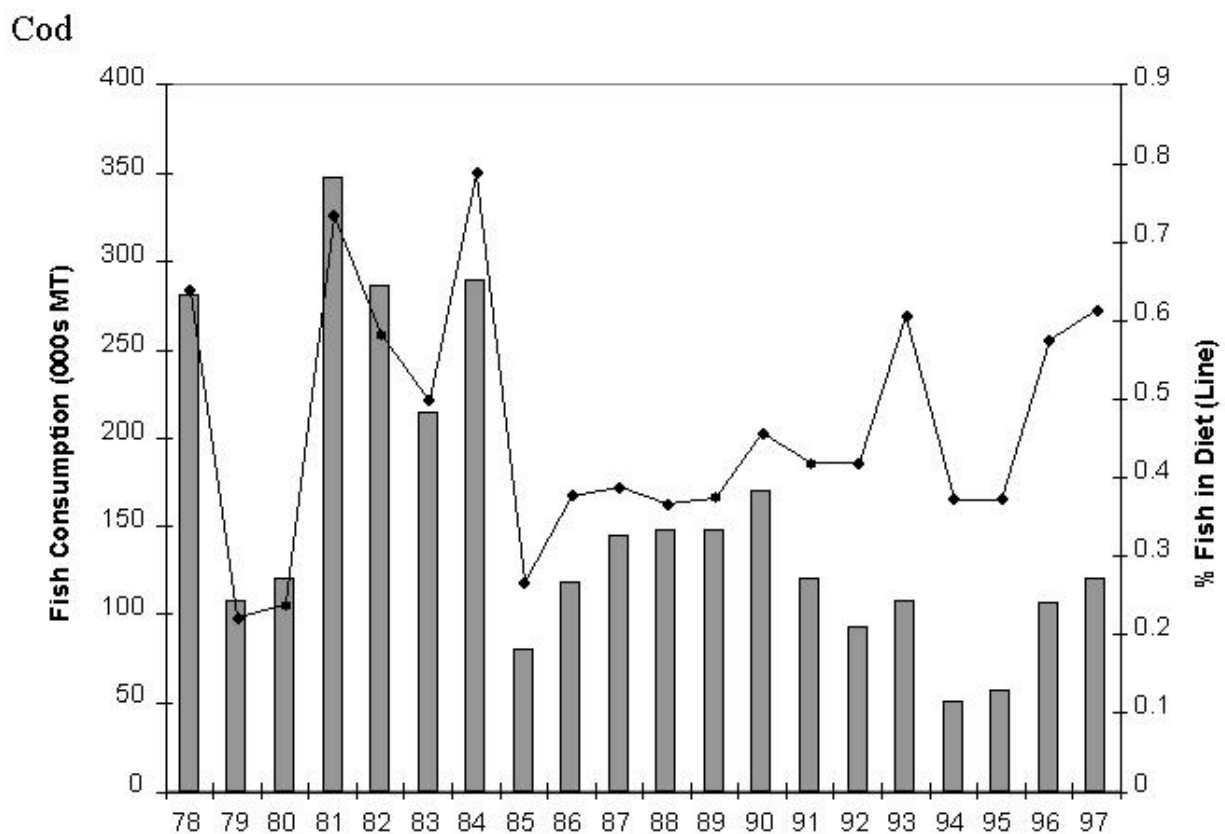
Figure B.44. *Fish consumption and % fish in diet of cod*

Figure B.45. *Fish consumption by cod at age*

Cod

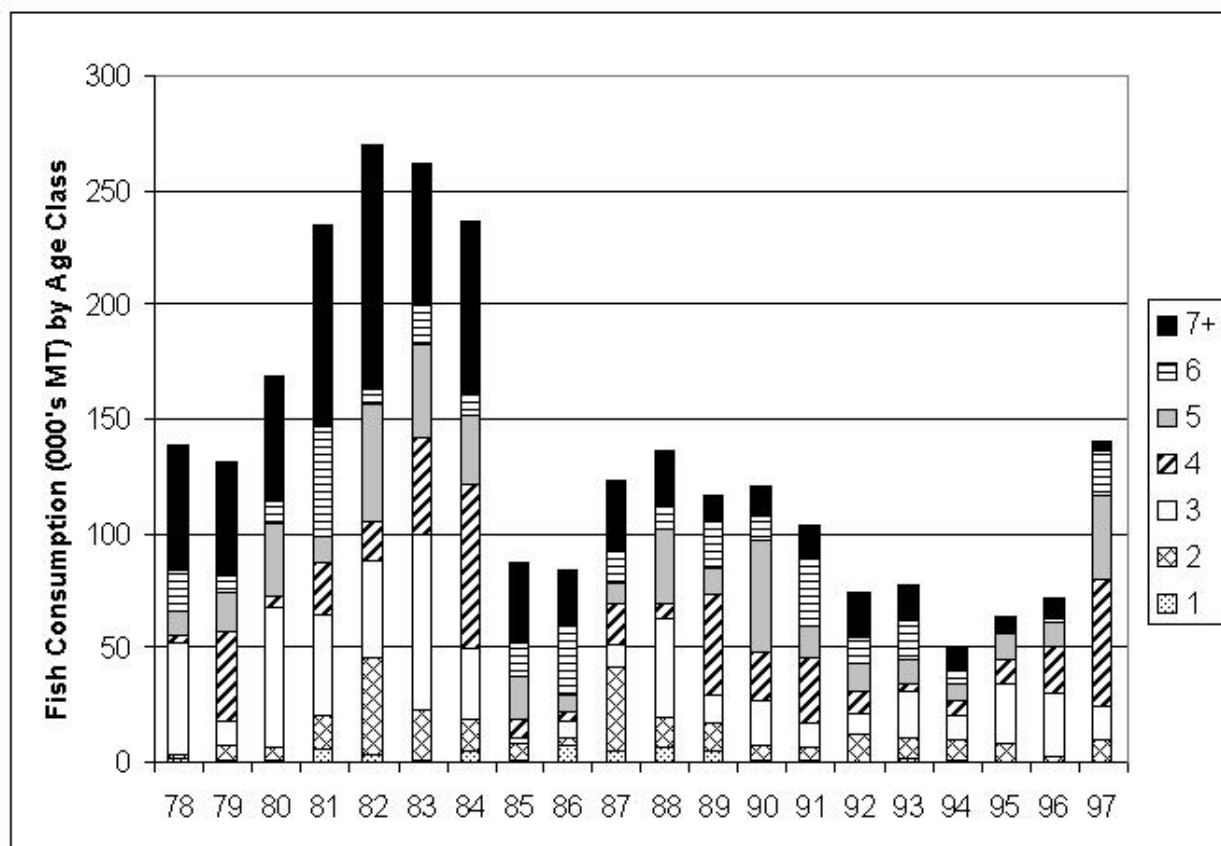


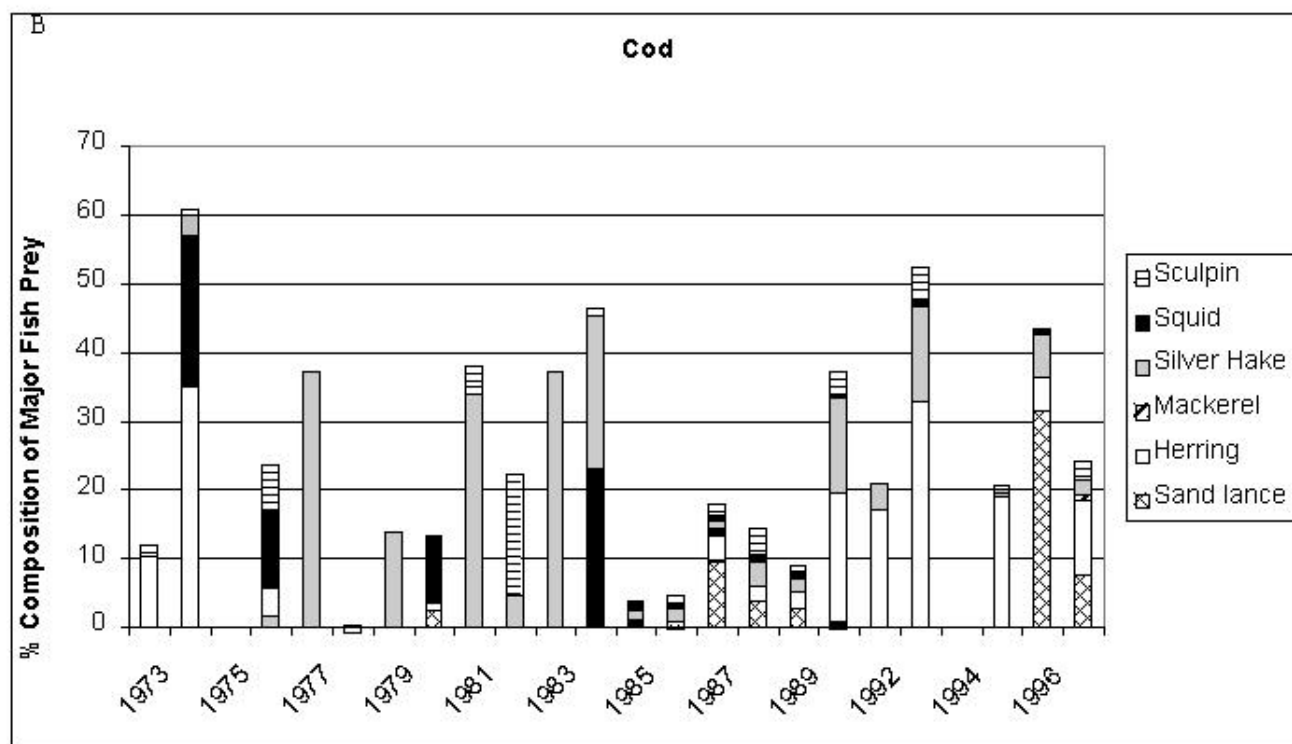
Figure B.46. *Cod % diet composition of major fish prey*

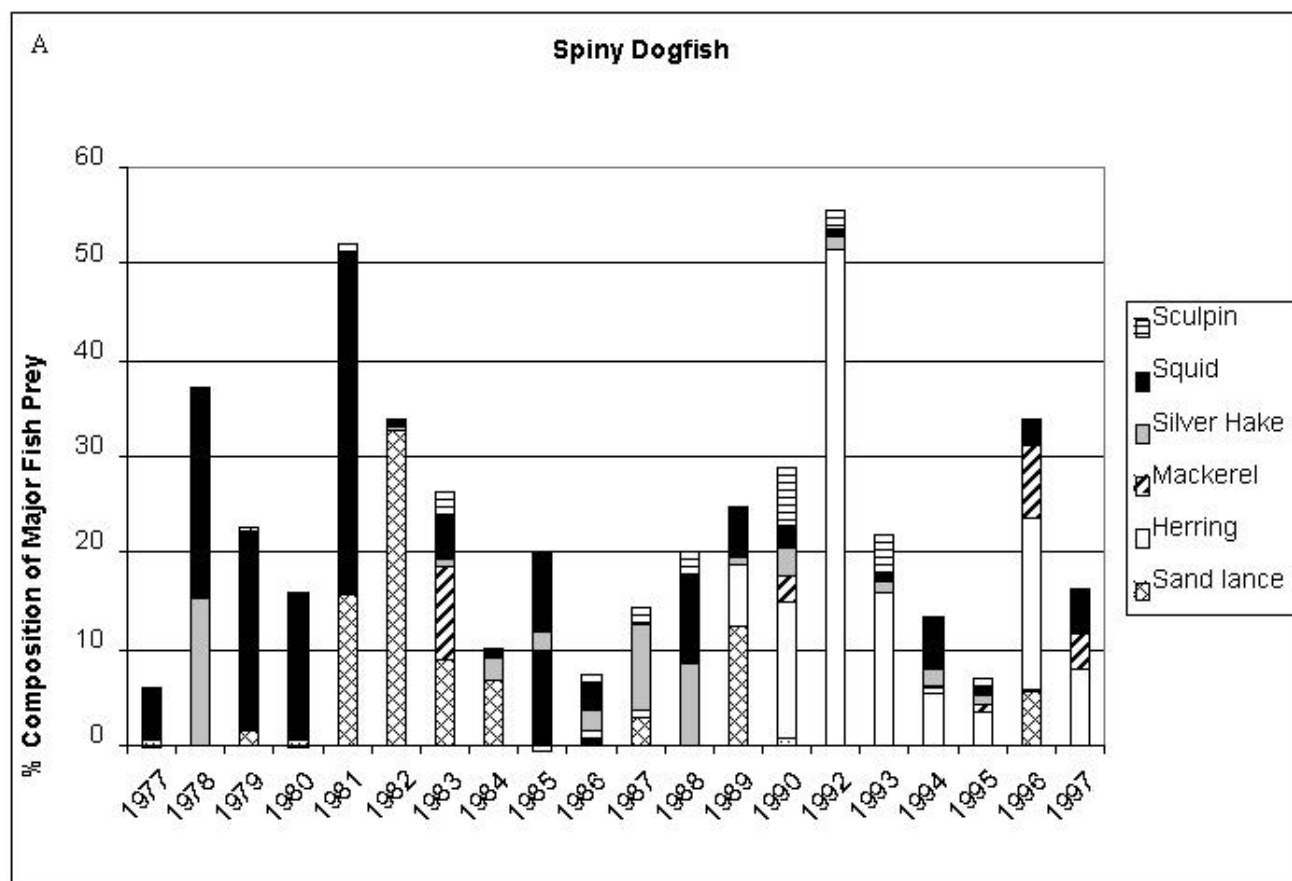
Figure B.47. *Spiny dogfish % diet composition of major fish prey*

Figure B.48a. *Number of predators for sand lance, herring, hermit crab, ophiuroids, mysids, and red hake*

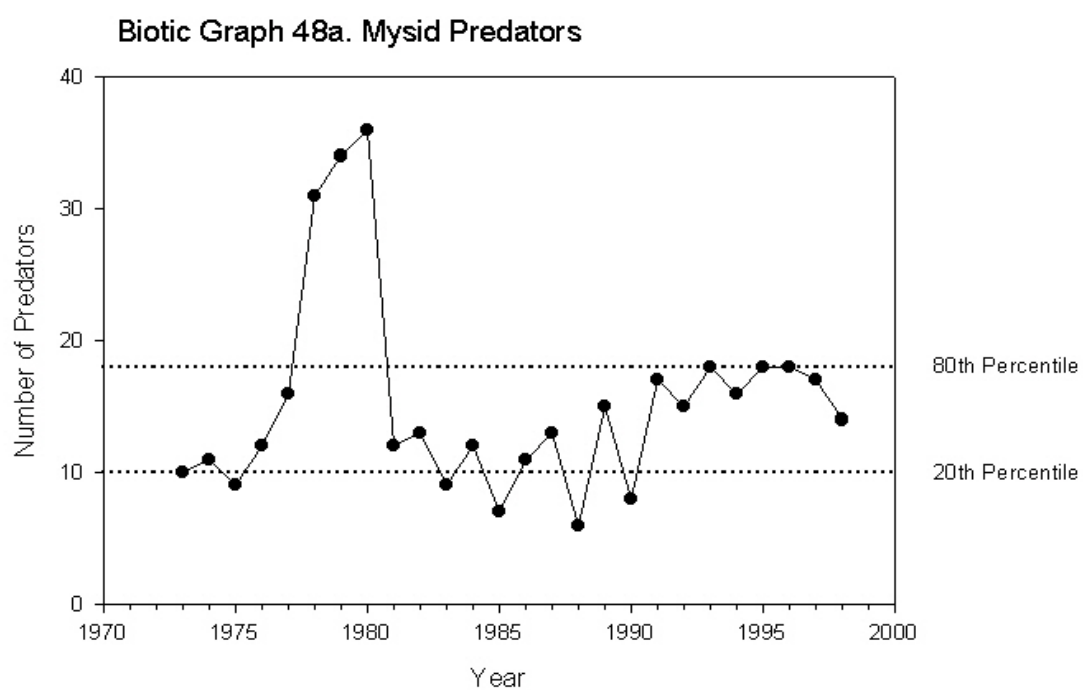


Figure B.48b. *Number of predators for sand lance, herring, hermit crab, ophiuroids, mysids, and red hake*

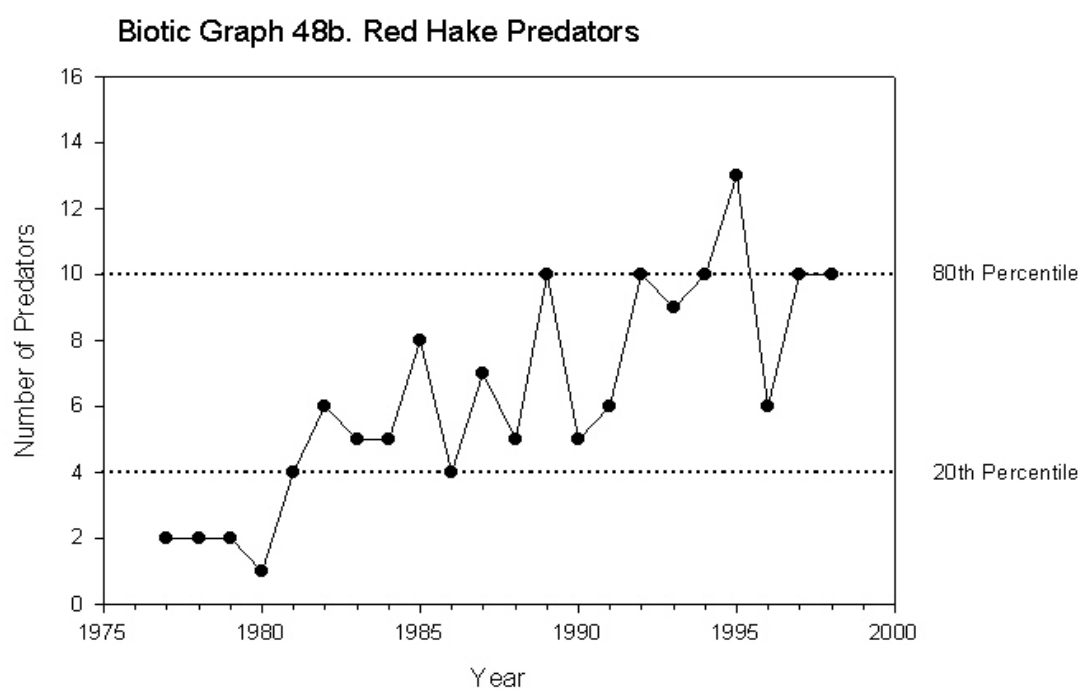


Figure B.48c. *Number of predators for sand lance, herring, hermit crab, ophiuroids, mysids, and red hake*

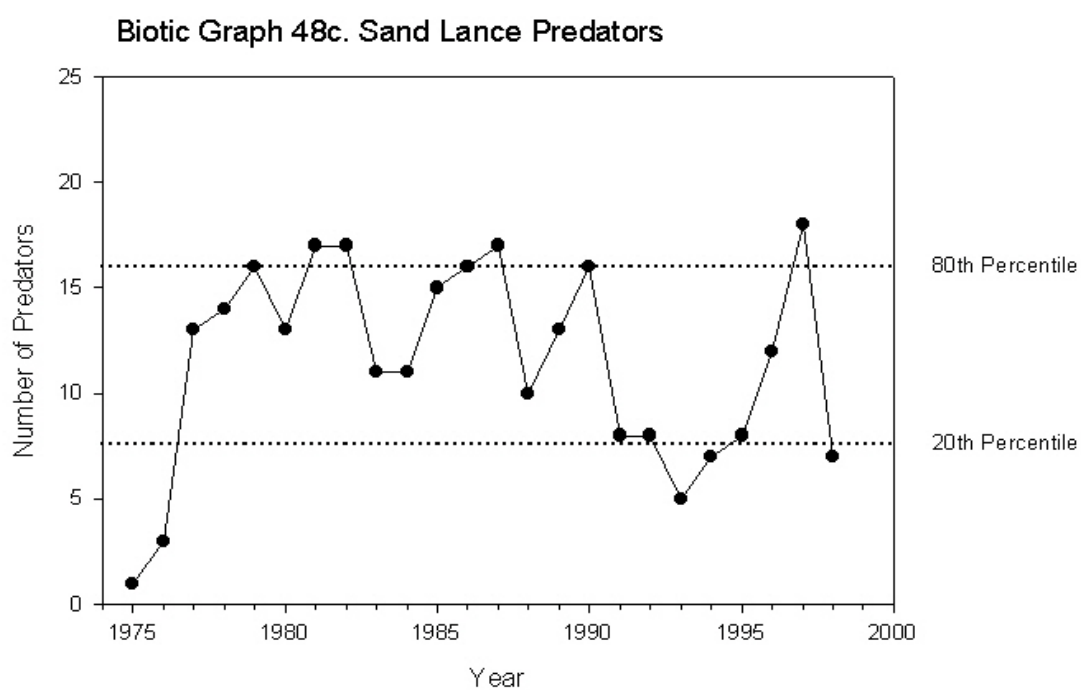


Figure B.48d. *Number of predators for sand lance, herring, hermit crab, ophiuroids, mysids, and red hake*

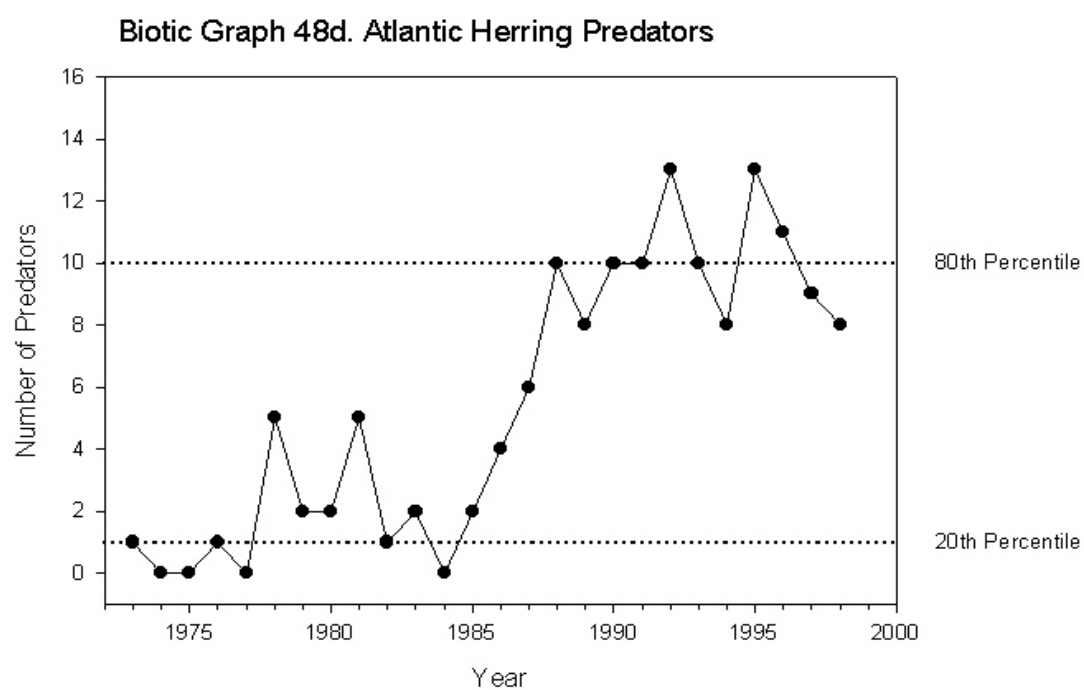




Figure B.48e. *Number of predators for sand lance, herring, hermit crab, ophiuroids, mysids, and red hake*

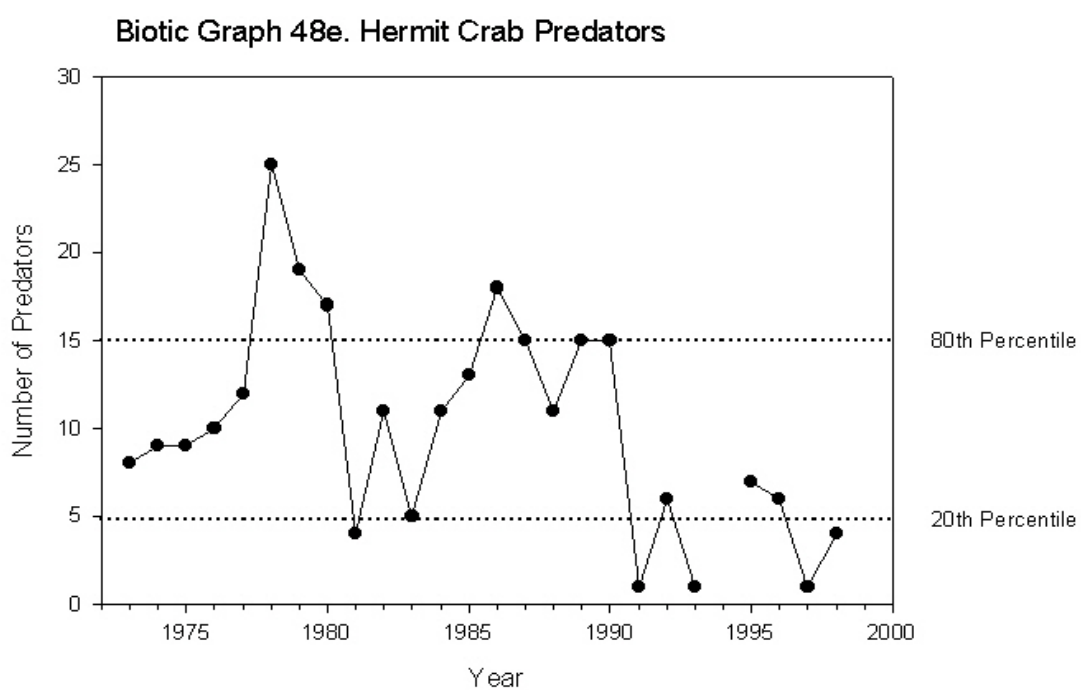


Figure B.48f. *Number of predators for sand lance, herring, hermit crab, ophiuroids, mysids, and red hake*

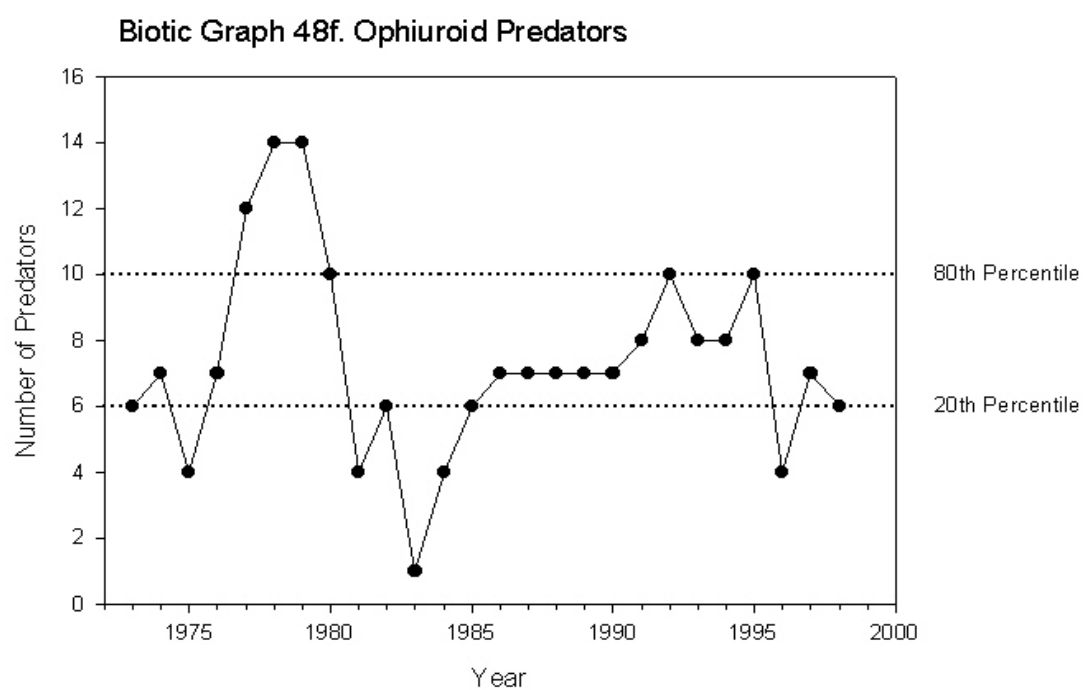


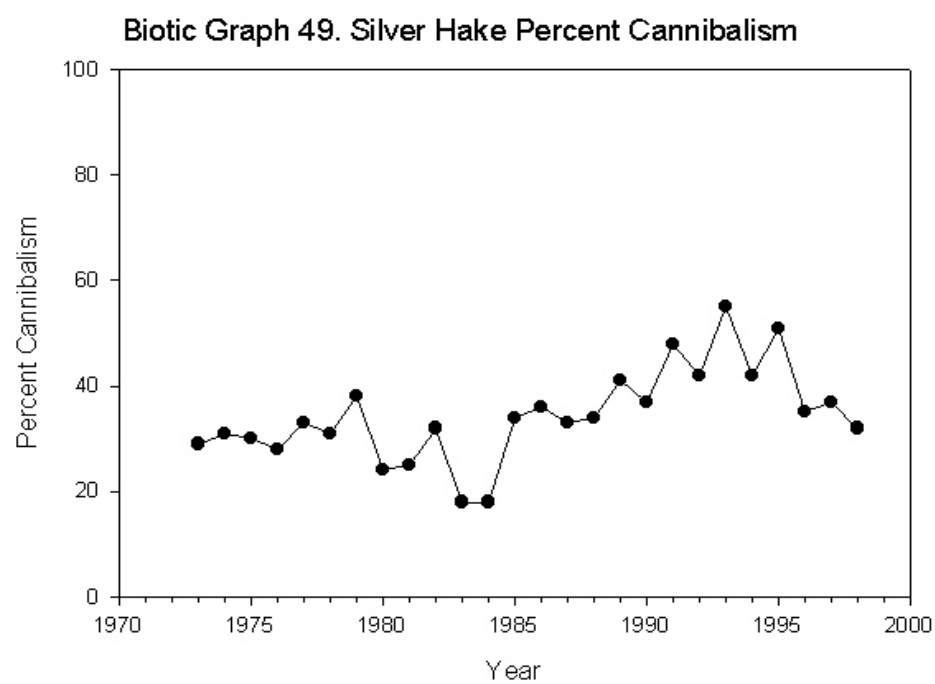
Figure B.49. *Silver hake % cannibalism*

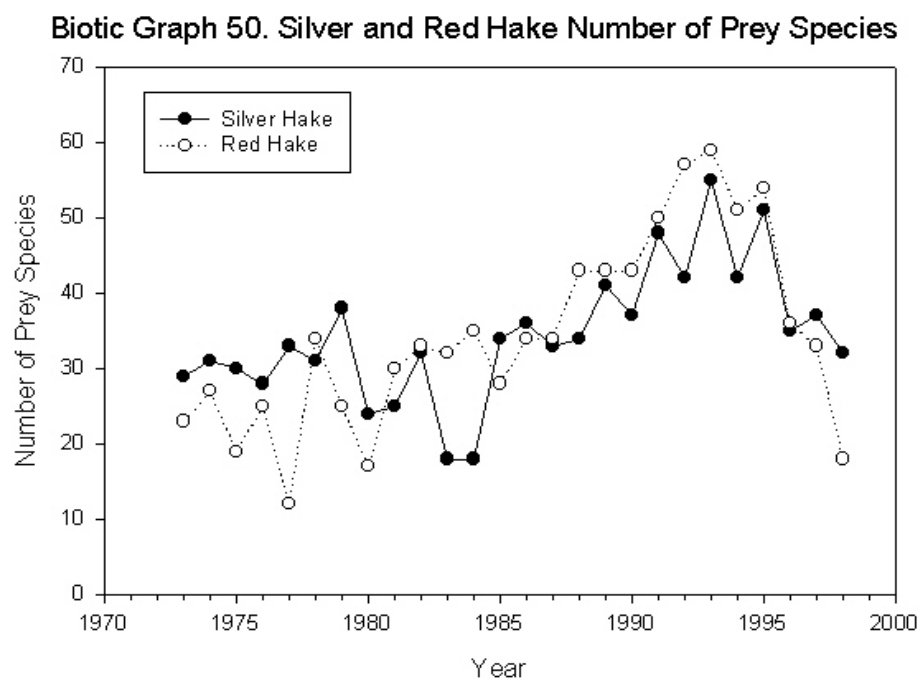
Figure B.50. *Silver hake and red hake number of prey items*

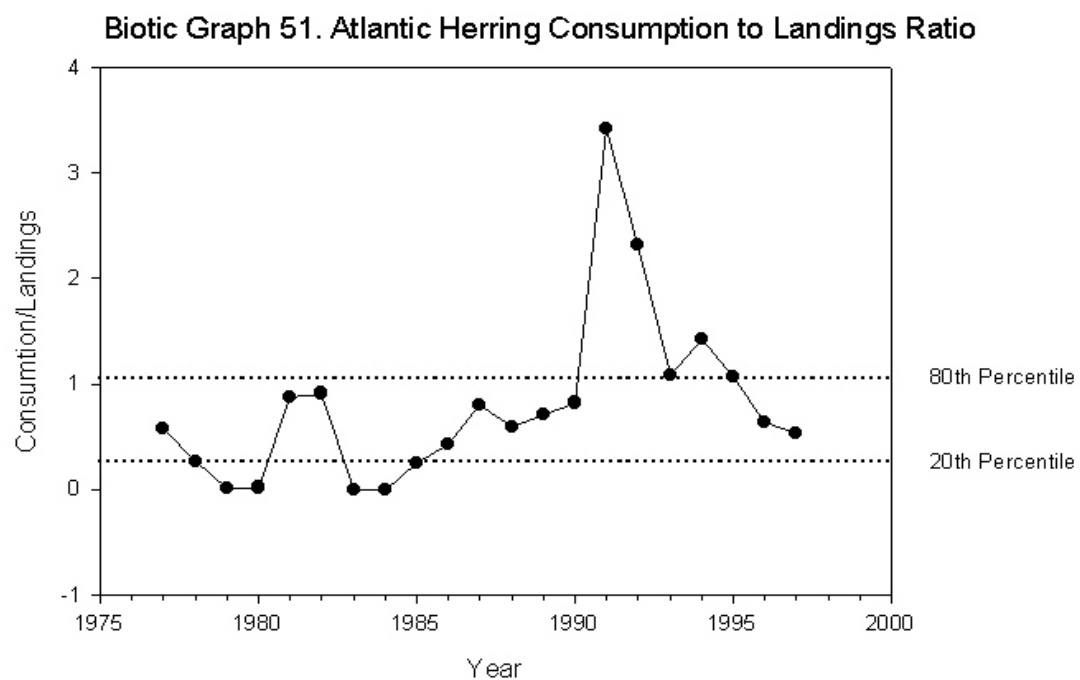
Figure B.51. *Herring consumption to landings ratio*

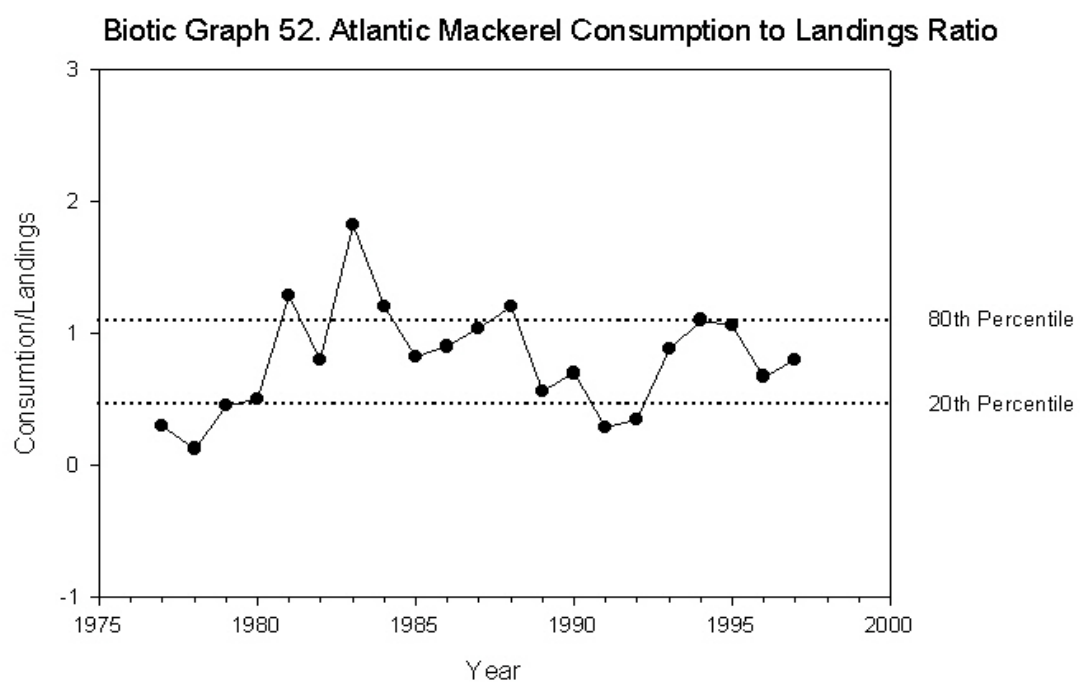
Figure B.52. *Mackerel consumption to landings ratio*

Figure B.53. *Loligo consumption to landings ratio*